



FLORENCE COPPER INC.
1575 W. Hunt Highway, Florence, Arizona 85132 USA
florencecopper.com

July 28, 2021

Arizona Department of Environmental Quality
Water Quality Compliance Section
Mail Code 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007

Attention: Tracy Bunch

Subject: Second Quarter 2021 Monitoring Report
Aquifer Protection Permit No. P-101704, LTF 88973

Dear Mr. Bunch:

Florence Copper Inc. (Florence Copper) is submitting this report in accordance with Section 2.7.4.2 of Aquifer Protection Permit (APP) No. P-101704, LTF 88973, dated April 30, 2021, for the Florence Copper Project.

Background Information

The Florence Copper Project is an in-situ copper extraction facility subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

APP Covering the 1997-98 BHP Pilot Facilities and Future Operations (APP):

- ADEQ APP No. P-101704 (LTF 76820) Significant Amendment dated December 8, 2020 and Other Amendment LTF 88973 dated April 30, 2021.

The authorized facilities and monitoring wells are identified on Figure 1, and the configuration of the Production Test Facility (PTF) wellfield, which was incorporated into the amended December 8, 2020 permit, is shown on Figure 2.

Prior to the amended permit issued on December 8, 2020, the Florence Copper Project was regulated under APP No. P-101704, LTF 65804 dated October 13, 2017.

In 1997, the BHP test wellfield, a small leachate processing facility, and a double-lined evaporation pond were constructed as authorized by APP No. P-101704 in 1997. The Pilot Test Facility operated from October 31, 1997 to February 9, 1998. The test area was rinsed until September 1, 2004. Cessation of hydraulic control for testing was approved by both agencies and the wellfield has since remained inactive. Subsequently, no Sitewide permit related activities took place until the issuance of the amended permit on December 8, 2020.

Underground Injection Control (UIC) Permit Covering the Current PTF:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated December 20, 2016.

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This permit authorizes operation of the PTF and sets forth separate monitoring requirements to be applied at the PTF, which lies within the area covered by the APP. The UIC facilities and monitoring wells are identified on Figure 1. The facility received authorization to proceed with pre-operational activities on July 13, 2017. The PTF wellfield was completed and began operations on December 15, 2018. The rinsing activities for the PTF began on June 26, 2020. Solutions from the wellfield continued to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper in the fourth quarter (Q4) until October 29, 2020. Wellfield rinsing activities have continued through Q2 2021.

This report documents monitoring activities required by APP No. P-101704, LTF 88973 during Q2 2021 following the issuance of the amended permit on April 30, 2021. Reporting for the UIC is performed separately; however, some information pertains to multiple permits and is reported accordingly.

Annual Report

Section 2.7.4.1 of the permit requires that an annual report presenting updates to the groundwater model and the results of any liner assessments be submitted no later than 30 days following the end of the calendar year. In accordance with Section 2.5 of the permit, monitoring and data collection to support the annual reporting requirements began in 2021 (the first full monitoring period following permit issuance). Therefore, the first annual report will be submitted in January 2022.

In-Situ Copper Recovery (ISCR) Operations and Monitoring Quarterly Reporting

- **Section 2.7.1 – Self-Monitoring Report Forms (SMRF)**

The completed SMRF for Q2 2021 has been submitted to the on-line MyDEQ portal. Per ADEQ, the SMRF for the annual sampling event conducted Q2 2021 can be submitted with the Q4 Level I SMRF, but not sooner.

- **Section 2.7.4.2.1.1 – Graphical Representation of Injected and Recovered Volumes**

The daily cumulative injection and recovery volumes, and the daily percent recovery to injection volume values are provided in tabular and graphical format in Attachment 1. Throughout the monitoring period, the extracted volume has consistently exceeded the injected volume by 6 percent or more.

- **Section 2.7.4.2.1.2 – Graphical Representation of the Hydraulic Gradient in the ISCR Wellfield**

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 2. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired PTF wells throughout the monitoring period.

- **Section 2.7.4.2.1.3– Monthly Potentiometric Surface Maps**

Monthly groundwater elevation contour maps are provided in Attachment 3. A cone of depression displaying inward flow and complete capture is depicted over the PTF, the only active mining area, in all three contour maps.

- **Section 2.7.4.2.1.4– Well Bore Annular Conductivity Device (ACD) Readings**

The results of the Q2 2021 well bore annular electrical conductivity (EC) monitoring are provided in Attachment 4. Annular EC resistance have remained approximately constant or increased slightly in 8 of the 11 wells since monitoring began in Q3 2018. Annular EC has decreased in wells WB-04, O-02, and O-04 during that same time. The results of the monitoring indicate the absence of injected fluid at the ACD locations.

- **Section 2.7.4.2.1.5 – Summary of Pressure Transducer and Fracture Gradient Readings**

Monthly maximum, minimum, and average injection pressures for the monitoring period are provided in Attachment 5. There were no exceedances of the fracture gradient during Q2 2021.

- **Section 2.7.4.2.1.6 – Graphical Representation of Fluid EC Readings from Injection and Observations Wells**
Fluid EC values are provided in tabular and graphical format in Attachment 6. As expected, fluid EC in the injection and observation wells were comparable during the monitoring period. Throughout the monitoring period the PTF wellfield was being rinsed, and no injection of in-situ copper recovery (ISCR) fluids took place.
- **Section 2.7.4.2.1.7 – Description of Deviations from Standard Sampling Protocols**
There were no deviations from standard sampling protocols during the Q2 2021 monitoring event.
- **Section 2.7.4.2.1.8 – Summary of all Exceedances of Alert Levels (AL), Aquifer Quality Limits (AQL), Action Levels, Discharge Limits, or Operational Limits**
There were no exceedances of AQLs, action levels, discharge limits, or operational limits during Q2 2021. Well M4-O exceeded its magnesium AL for all monthly samples taken during this monitoring period. No other groundwater monitoring ALs were exceeded. Refer to Attachment 10 for additional details on the groundwater monitoring AL exceedances at well M4-O.
- **Section 2.7.4.2.1.9 – Time versus Concentration Plots of Select Groundwater Parameters**
Plots of select quarterly monitoring parameter concentrations over time for point of compliance (POC) wells, are provided in Attachment 7.
- **Section 2.7.4.2.1.10 – Groundwater Elevation Contour Maps**
A groundwater elevation contour map for the quarterly monitoring period (April 2021), including the groundwater elevation obtained from the underground workings is provided in Attachment 8 of the Q2 2021 quarterly compliance monitoring report.
- **Section 2.7.4.2.1.11 – Fissure Inspection Summary**
Routine visual observations found no ground surface cracks or earth fissures in or around the PTF.
- **Section 2.7.4.2.1.12 – Table of Wells in the Discharge Impact Area**
A table of all monitoring wells within the Discharge Impact Area, including location, depth of well, depth to water, and water level elevation is provided in Attachment 9.
- **Section 2.7.4.2.1.13 – Summary of All Monitoring Wells Replaced**
No monitoring wells were replaced during the monitoring period.
- **Section 2.7.4.2.1.14 – Groundwater Sampling Results for POC wells**
The results of Q2 2021 groundwater monitoring of the POC wells are presented in Attachment 10.
- **Section 2.7.4.2.1.15 – Copies of Reports Submitted to the USEPA for the UIC**
As required, a copy of the quarterly monitoring report submitted to the USEPA for UIC Permit No. R9UIC-AZ3-FY11-1 is being submitted under a separate cover.
- **Section 2.7.4.2.1.16 – Resource Block Status Report**
A resource block status summary table is provided in Attachment 11.
- **Section 2.7.4.2.1.17 – Monthly ISCR Wellfield Water Analytical Results**
Monthly analytical results of the treated ISCR wellfield water are provided in Attachment 12.
- **Section 2.7.4.2.2 – Well Abandonment Report**
No wells associated with this permit were abandoned during Q2 2021 or are currently anticipated to be abandoned; therefore, no abandonment report is included for this monitoring period. For future quarterly compliance reports, the Well Abandonment Report will be provided in Attachment 13.

Operational Requirements and Best Available Demonstrated Control Technology Monitoring

The following items address additional operational and monitoring requirements. Some requirements necessitate filing special reports with ADEQ in the event that certain conditions occur. Others require only that relevant information be placed in logs that are to be maintained on site.

In accordance with Section 2.5.2 of the permit, permitted facilities are inspected for the performance levels listed in Section 4.2, Table 10 of APP No. P-101704. Records of operational monitoring and inspections are maintained in the facility log. A summary of the operational status of the listed facilities is presented in Table 10 below.

Weather and road conditions may have precluded daily observations on a small number of occasions due to safety concerns.

Table 10. Operational Monitoring and Inspections for APP No. P-101704, LTF 88973

Facility Category	Facility Name	Operational Inspection
Process solution impoundment	PTF process water impoundment PLS pond Raffinate Pond BHP Copper evaporation pond Water impoundments 1 through 5	At present, only the PTF process water impoundment and BHP Copper evaporation pond have been constructed. The PTF process water impoundment was compliant with the operational monitoring requirements throughout the monitoring period. The BHP Copper evaporation pond was not yet operational in Q2 2021. As such, the operational inspection requirements do not apply in this reporting period.
Lined Non-Stormwater Containment Pond	PTF run-off pond Run-off pond	At present, only the PTF run-off pond has been constructed. The PTF run-off pond was compliant with the applicable operational requirements during the monitoring period.
Stormwater control structures	Sitewide stormwater ditches	Monthly inspections were conducted in Q2 2021 in accordance with Section 2.5.
Groundwater monitor wells	Sitewide monitoring wells	Quarterly inspections were conducted in Q2 2021 in accordance with Section 2.5.
Pumps	Barge pumps Run-off transfer pumps Sump Pumps Discharge Pump	The only applicable operating pump is the sump pump at the PTF process water impoundment. It was compliant with the operational requirements throughout the monitoring period.
In-situ area injection and recovery resource blocks	PTF wellfield ISCR area	No leakage from pipelines, manifolds, or wellheads was reported during the monitoring period.
In-situ area injection and recovery resource blocks	PTF wellfield ISCR area	Quarterly inspections were conducted in Q2 2021 in accordance with Section 2.5.
Notes: ADEQ = Arizona Department of Environmental Quality ISCR = In-situ copper recovery PLS = pregnant leach solution PTF = Production Test Facility		

The contents of this report are believed to be accurate and complete based upon the data submitted to me and reviewed by me. Please call (520) 316-3710 should you have any questions concerning this report.

Sincerely,
Florence Copper Inc.



Brent Berg
General Manager

Enclosures:

Figure 1 – Groundwater Monitoring Area

Figure 2 – PTF Wellfield

Attachment 1 – Graphical Representation of Injected and Recovered Volumes

Attachment 2 – Graphical Representation of the Hydraulic Gradient in the ISCR Wellfield

Attachment 3 – Monthly Potentiometric Surface Maps

Attachment 4 – Well Bore Annular Conductivity Device (ACD) Readings

Attachment 5 – Summary of Pressure Transducer and Fracture Gradient Readings

Attachment 6 – Graphical Representation of Fluid Electrical Conductivity Readings from Injection and Observations Wells

Attachment 7 – Time versus Concentration Plots of Select Groundwater Parameters

Attachment 8 – Quarterly Groundwater Elevation Contour Map

Attachment 9 – Table of Wells in the Discharge Impact Area

Attachment 10 – 10A – Groundwater Sampling Results for POC Wells

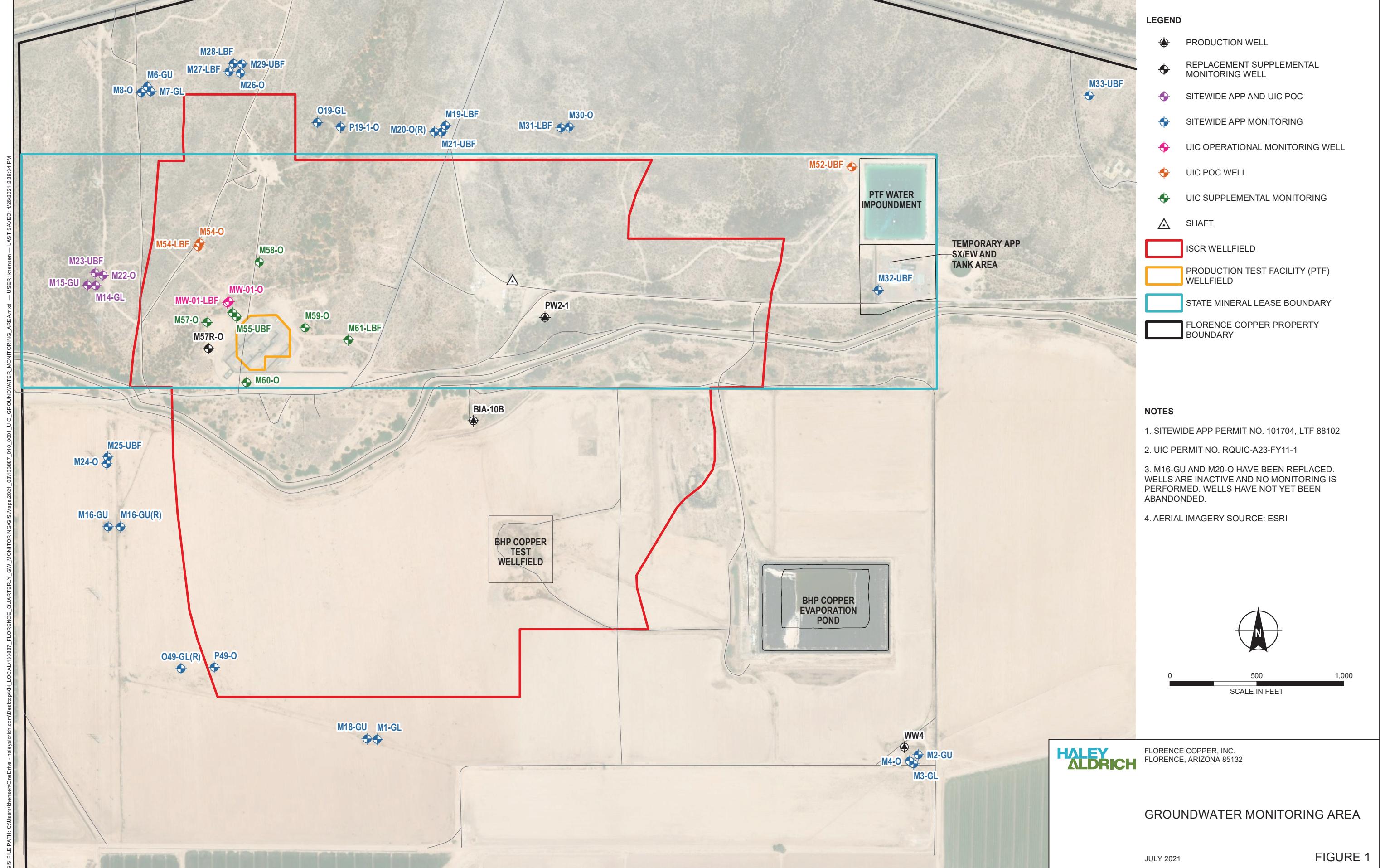
10B – Summary of Quarterly Water Levels

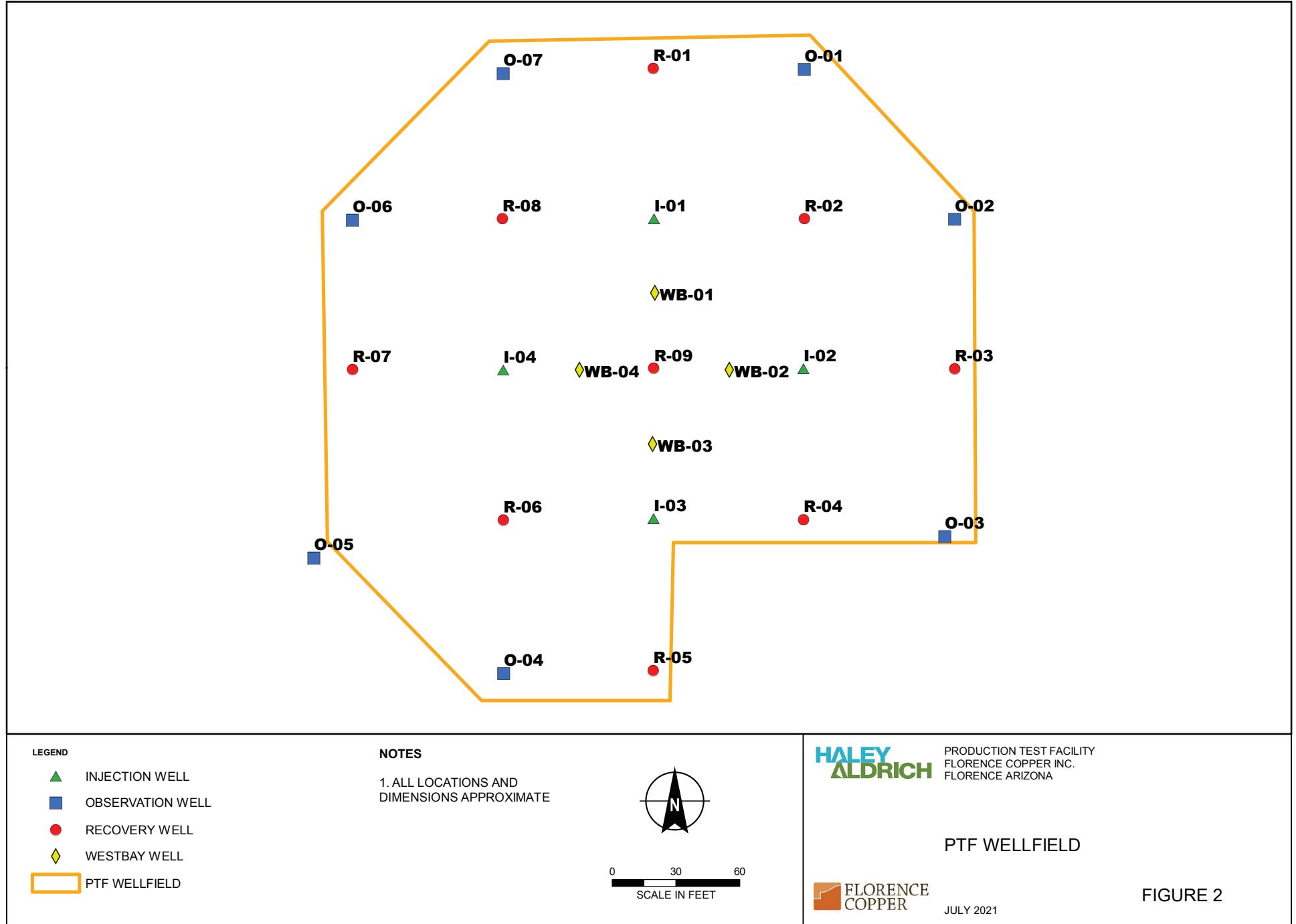
Attachment 11 – Resource Block Status Report

Attachment 12 – Monthly ISCR Wellfield Water Analytical Results

Attachment 13 – Well Abandonment Report

FIGURES





ATTACHMENT 1

Graphical Representation of Injected and Recovered Volumes

**Q2 2021 DAILY INJECTION AND RECOVERY
VOLUMES WITH PERCENT RECOVERY**
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Table 1. April 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
4/1/2021	155,400	173,100	1.11	111
4/2/2021	158,400	173,500	1.10	110
4/3/2021	155,400	173,000	1.11	111
4/4/2021	155,900	173,000	1.11	111
4/5/2021	155,600	173,700	1.12	112
4/6/2021	155,600	174,100	1.12	112
4/7/2021	156,300	173,300	1.11	111
4/8/2021	156,200	173,500	1.11	111
4/9/2021	155,300	173,500	1.12	112
4/10/2021	155,800	173,400	1.11	111
4/11/2021	155,600	173,600	1.12	112
4/12/2021	155,800	173,500	1.11	111
4/13/2021	155,300	173,200	1.12	112
4/14/2021	155,300	174,300	1.12	112
4/15/2021	154,900	173,700	1.12	112
4/16/2021	156,200	173,400	1.11	111
4/17/2021	156,000	173,700	1.11	111
4/18/2021	155,500	173,200	1.11	111
4/19/2021	157,000	174,900	1.11	111
4/20/2021	156,100	173,800	1.11	111
4/21/2021	155,200	175,600	1.13	113
4/22/2021	157,200	177,000	1.13	113
4/23/2021	157,400	178,000	1.13	113
4/24/2021	156,400	176,800	1.13	113
4/25/2021	156,500	178,900	1.14	114
4/26/2021	156,600	179,400	1.15	115
4/27/2021	154,700	178,400	1.15	115
4/28/2021	158,000	178,900	1.13	113
4/29/2021	157,300	180,000	1.14	114
4/30/2021	156,500	179,800	1.15	115
APR Averages	156,113	175,140	1.12	112

APR Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	108	122

Notes:

% = percent

GPM = gallons per minute

**Q2 2021 DAILY INJECTION AND RECOVERY
VOLUMES WITH PERCENT RECOVERY**
FLORENCE COPPER INC.
FLORENCE, ARIZONA

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Table 2. May 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
5/1/2021	158,500	179,700	1.13	113
5/2/2021	156,000	177,800	1.14	114
5/3/2021	155,200	178,300	1.15	115
5/4/2021	161,200	180,300	1.12	112
5/5/2021	160,700	179,300	1.12	112
5/6/2021	160,900	178,600	1.11	111
5/7/2021	181,300	203,800	1.12	112
5/8/2021	187,500	213,400	1.14	114
5/9/2021	188,700	213,500	1.13	113
5/10/2021	187,900	213,300	1.14	114
5/11/2021	187,100	214,800	1.15	115
5/12/2021	184,500	211,900	1.15	115
5/13/2021	184,200	211,600	1.15	115
5/14/2021	184,100	211,200	1.15	115
5/15/2021	185,100	210,500	1.14	114
5/16/2021	184,500	207,100	1.12	112
5/17/2021	184,600	208,400	1.13	113
5/18/2021	181,100	208,300	1.15	115
5/19/2021	182,800	208,900	1.14	114
5/20/2021	183,100	208,241	1.14	114
5/21/2021	184,500	208,893	1.13	113
5/22/2021	183,800	207,980	1.13	113
5/23/2021	184,400	207,700	1.13	113
5/24/2021	183,800	208,900	1.14	114
5/25/2021	192,400	220,600	1.15	115
5/26/2021	199,300	227,300	1.14	114
5/27/2021	198,400	227,400	1.15	115
5/28/2021	198,300	227,600	1.15	115
5/29/2021	198,600	227,300	1.14	114
5/30/2021	198,600	227,500	1.15	115
5/31/2021	198,000	227,300	1.15	115
MAY Averages	182,552	207,659	1.14	114

MAY Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	127	144

Notes:

% = percent

GPM = gallons per minute

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. June 2021 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	% Recovery
6/1/2021	194,500	227,800	1.17	117
6/2/2021	199,000	227,900	1.15	115
6/3/2021	199,400	227,900	1.14	114
6/4/2021	198,400	228,800	1.15	115
6/5/2021	198,900	228,800	1.15	115
6/6/2021	199,300	227,700	1.14	114
6/7/2021	198,000	227,500	1.15	115
6/8/2021	201,100	229,100	1.14	114
6/9/2021	197,400	227,700	1.15	115
6/10/2021	199,300	227,200	1.14	114
6/11/2021	199,200	229,400	1.15	115
6/12/2021	198,100	228,000	1.15	115
6/13/2021	197,800	227,300	1.15	115
6/14/2021	195,300	222,040	1.14	114
6/15/2021	199,100	234,500	1.18	118
6/16/2021	197,500	228,500	1.16	116
6/17/2021	197,500	223,700	1.13	113
6/18/2021	197,400	223,100	1.13	113
6/19/2021	197,000	223,700	1.14	114
6/20/2021	197,200	223,500	1.13	113
6/21/2021	197,300	222,800	1.13	113
6/22/2021	196,900	222,900	1.13	113
6/23/2021	197,800	222,700	1.13	113
6/24/2021	198,000	222,600	1.12	112
6/25/2021	202,800	226,900	1.12	112
6/26/2021	203,700	229,300	1.13	113
6/27/2021	203,800	228,900	1.12	112
6/28/2021	203,800	227,300	1.12	112
6/29/2021	203,900	229,200	1.12	112
6/30/2021	204,500	229,200	1.12	112
MAR Averages	199,130	226,865	1.14	114

JUN Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	138	158

Notes:

% = percent

GPM = gallons per minute

Figure 1. Injection vs. Recovery Volumes - April

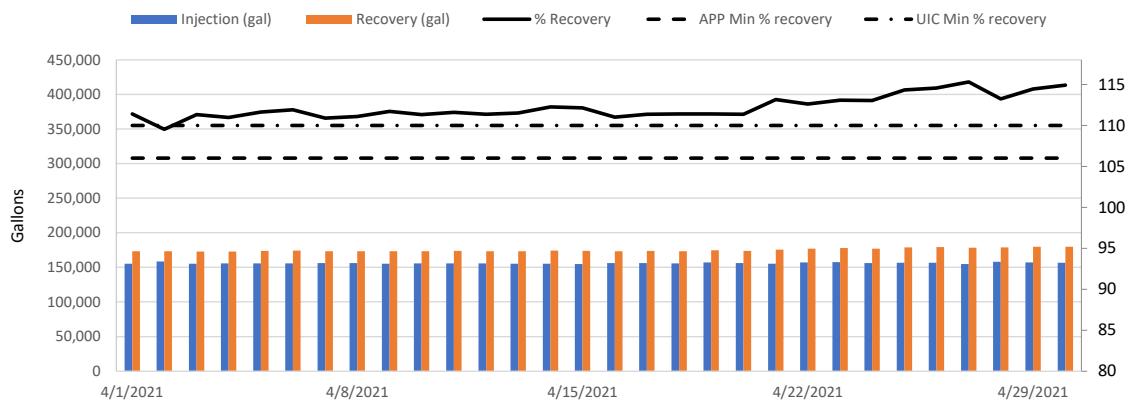


Figure 2. Injection vs. Recovery Volumes - May

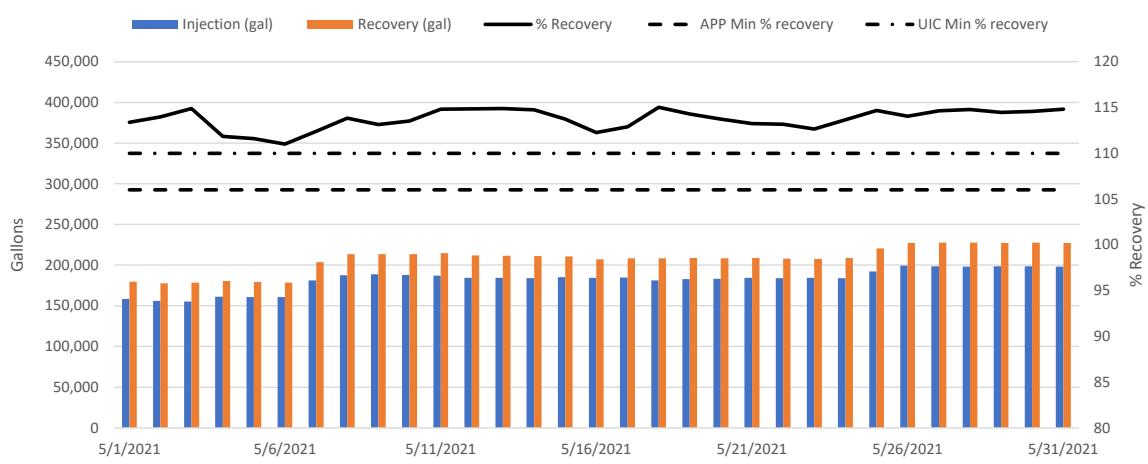
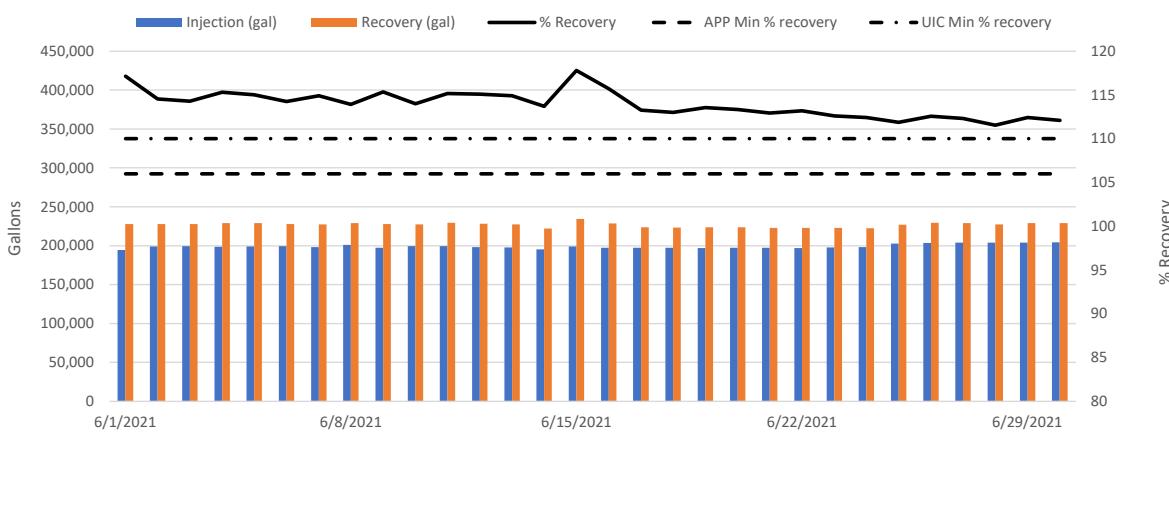


Figure 3. Injection vs. Recovery Volumes - June



ATTACHMENT 2

Graphical Representation of the Hydraulic Gradient in the ISCR Wellfield

Table 1. April 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
4/1/2021	1225.86	1240.01	1240.84	1200.22	1240.01	1245.12	1159.06	1245.12	1239.28	1169.25	1239.28	1170.67	1242.33	1206.83	1242.33	1240.77	1235.69	1240.77	1239.98	1222.83	1239.98	1240.84	1222.36
4/2/2021	1223.77	1238.00	1238.78	1197.47	1238.00	1243.12	1158.74	1243.12	1237.39	1168.59	1237.39	1167.83	1240.42	1204.30	1240.42	1239.02	1234.37	1239.02	1238.26	1222.22	1238.26	1238.78	1220.48
4/3/2021	1223.50	1237.56	1238.25	1197.56	1237.56	1242.50	1158.65	1242.50	1236.12	1168.11	1236.12	1166.47	1239.68	1202.99	1239.68	1238.27	1233.80	1238.27	1237.64	1221.60	1237.64	1238.25	1219.96
4/4/2021	1222.86	1237.38	1238.00	1197.40	1237.38	1242.33	1158.40	1242.33	1236.36	1168.63	1236.36	1165.99	1239.45	1204.03	1239.45	1238.07	1233.75	1238.07	1237.48	1221.34	1237.48	1238.00	1219.75
4/5/2021	1221.86	1235.87	1236.78	1195.74	1235.87	1241.06	1158.47	1241.06	1235.13	1167.76	1235.13	1164.27	1238.14	1201.38	1238.14	1236.92	1232.61	1236.92	1236.13	1220.06	1236.13	1236.78	1218.76
4/6/2021	1222.73	1236.96	1237.36	1196.82	1236.96	1241.96	1158.61	1241.96	1236.12	1167.57	1236.12	1163.17	1238.54	1201.55	1238.54	1237.40	1233.38	1237.40	1236.66	1220.90	1236.66	1237.36	1219.58
4/7/2021	1221.71	1236.15	1236.83	1195.89	1236.15	1241.26	1157.81	1241.26	1235.83	1169.67	1235.83	1163.81	1238.42	1205.96	1238.42	1237.16	1233.26	1237.16	1236.27	1220.18	1236.27	1236.83	1218.95
4/8/2021	1221.57	1235.59	1236.44	1195.35	1235.59	1240.79	1158.21	1240.79	1235.22	1168.58	1235.22	1162.71	1238.05	1203.36	1238.05	1236.68	1232.94	1236.68	1235.80	1219.71	1235.80	1236.44	1218.35
4/9/2021	1222.96	1237.34	1237.60	1197.20	1237.34	1242.27	1158.64	1242.27	1236.64	1168.37	1236.64	1163.15	1238.83	1204.02	1238.83	1237.58	1234.13	1237.58	1236.86	1220.96	1236.86	1237.60	1220.19
4/10/2021	1225.01	1239.34	1239.62	1199.14	1239.34	1244.29	1158.98	1244.29	1238.87	1168.75	1238.87	1164.95	1241.44	1206.18	1241.44	1239.90	1236.59	1239.90	1239.04	1223.02	1239.04	1239.62	1222.46
4/11/2021	1227.46	1241.81	1242.04	1201.69	1241.81	1246.79	1159.54	1246.79	1241.49	1169.38	1241.49	1167.10	1244.31	1208.72	1244.31	1242.54	1239.39	1242.54	1241.61	1225.57	1241.61	1242.04	1225.24
4/12/2021	1228.81	1243.18	1243.33	1203.24	1243.18	1248.20	1160.00	1248.20	1243.05	1169.65	1243.05	1168.33	1245.74	1209.98	1245.74	1243.94	1240.95	1243.94	1242.94	1226.90	1242.94	1243.33	1226.48
4/13/2021	1228.48	1242.43	1243.21	1202.38	1242.43	1247.62	1159.83	1247.62	1242.55	1169.67	1242.55	1167.87	1245.99	1210.34	1245.99	1244.00	1241.13	1244.00	1242.88	1226.69	1242.88	1243.21	1225.62
4/14/2021	1229.14	1243.08	1243.83	1203.07	1243.08	1248.30	1159.86	1248.30	1243.14	1169.63	1243.14	1166.86	1246.58	1210.28	1246.58	1244.61	1241.93	1244.61	1243.50	1227.37	1243.50	1243.83	1226.35
4/15/2021	1229.14	1242.80	1243.69	1202.86	1242.80	1248.11	1160.21	1248.11	1242.93	1169.03	1242.93	1166.29	1246.47	1208.68	1246.47	1244.00	1241.25	1244.00	1243.38	1227.08	1243.38	1243.69	1227.04
4/16/2021	1231.05	1245.94	1245.45	1205.97	1245.94	1250.32	1160.38	1250.32	1243.72	1168.66	1243.72	1165.01	1247.36	1210.71	1247.36	1245.25	1242.98	1245.25	1245.14	1229.00	1245.14	1245.45	1230.07
4/17/2021	1231.74	1247.01	1245.86	1207.06	1247.01	1251.02	1160.25	1251.02	1243.57	1169.89	1243.57	1167.31	1247.50	1212.01	1247.50	1245.38	1243.33	1245.38	1245.44	1229.47	1245.44	1245.86	1230.60
4/18/2021	1231.93	1247.23	1246.10	1207.66	1247.23	1251.29	1160.30	1251.29	1243.76	1170.11	1243.76	1167.83	1247.72	1212.20	1247.72	1245.62	1243.79	1245.62	1245.70	1229.71	1245.70	1246.10	1230.79
4/19/2021	1231.80	1247.91	1245.93	1206.88	1247.91	1251.43	1160.00	1251.43	1241.94	1169.78	1241.94	1164.66	1246.72	1211.15	1246.72	1245.01	1243.66	1245.01	1245.57	1230.07	1245.57	1245.93	1231.07
4/20/2021	1230.35	1246.45	1244.36	1206.77	1246.45	1249.89	1159.81	1249.89	1240.08	1169.57	1240.08	1162.21	1244.77	1208.50	1244.77	1243.18	1242.10	1243.18	1243.91	1228.45	1243.91	1244.36	1229.69
4/21/2021	1229.32	1245.08	1243.34	1205.46	1245.08	1248.67	1159.67	1248.67	1238.85	1168.79	1238.85	1161.73	1243.97	1206.74	1243.97	1241.96	1240.73	1241.96	1242.53	1226.96	1242.53	1243.34	1228.27
4/22/2021	1229.73	1245.52	1243.73	1206.09	1245.52	1249.16	1159.75	1249.16	1239.26	1168.27	1239.26	1161.42	1244.42	1205.38	1244.42	1242.23	1240.94	1242.23	1242.78	1227.15	1242.78	1243.73	1228.34
4/23/2021	1229.63	1245.78	1243.54	1207.43	1245.78	1249.41	1159.81	1249.41	1239.80	1169.44	1239.80	1161.80	1244.01	1206.52	1244.01	1241.93	1240.77	1241.93	1242.61	1227.16	1242.61	1243.54	1228.83
4/24/2021	1228.91	1245.53	1242.86	1210.40	1245.53	1249.16	1159.33	1249.16	1239.78	1171.50													

Table 2. May 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
5/1/2021	1227.33	1243.14	1240.69	1208.13	1243.14	1247.30	1160.42	1247.30	1239.97	1170.30	1239.97	1165.63	1241.38	1206.54	1241.38	1238.95	1237.69	1238.95	1238.96	1224.20	1238.96	1240.69	1226.93
5/2/2021	1227.46	1243.31	1240.78	1211.66	1243.31	1247.55	1160.87	1247.55	1240.20	1170.71	1240.20	1166.46	1241.58	1208.00	1241.58	1239.25	1233.80	1239.25	1239.19	1224.95	1239.19	1240.78	1228.17
5/3/2021	1225.68	1241.30	1238.94	1209.75	1241.30	1245.64	1160.23	1245.64	1237.93	1170.43	1237.93	1163.90	1239.64	1205.96	1239.64	1237.39	1228.43	1237.39	1237.20	1222.79	1237.20	1238.94	1225.44
5/4/2021	1223.53	1239.00	1236.49	1207.59	1239.00	1243.30	1159.76	1243.30	1235.45	1169.98	1235.45	1161.38	1236.83	1203.79	1236.83	1234.69	1225.29	1234.69	1234.51	1220.28	1234.51	1236.49	1222.76
5/5/2021	1222.34	1237.87	1235.36	1206.10	1237.87	1242.12	1159.20	1242.12	1234.23	1169.65	1234.23	1164.26	1235.52	1202.05	1235.52	1233.46	1224.19	1233.46	1233.40	1219.15	1233.40	1235.36	1216.49
5/6/2021	1222.16	1237.76	1235.18	1205.87	1237.76	1241.91	1159.60	1241.91	1234.06	1169.20	1234.06	1162.60	1235.14	1201.16	1235.14	1233.22	1224.08	1233.22	1233.26	1219.08	1233.26	1235.18	1220.86
5/7/2021	1218.08	1237.08	1234.81	1203.93	1237.08	1240.67	1151.86	1240.67	1231.94	1160.43	1231.94	1160.10	1235.21	1188.05	1235.21	1234.07	1226.74	1234.07	1234.21	1220.33	1234.21	1234.81	1222.98
5/8/2021	1217.49	1236.00	1234.28	1201.60	1236.00	1239.42	1150.50	1239.42	1229.99	1151.94	1229.99	1152.05	1234.71	1171.69	1234.71	1233.89	1227.15	1233.89	1233.93	1220.26	1233.93	1234.28	1222.21
5/9/2021	1218.10	1236.73	1235.00	1201.84	1236.73	1240.10	1150.46	1240.10	1230.58	1151.82	1230.58	1152.23	1235.31	1172.20	1235.31	1234.66	1228.04	1234.66	1234.78	1221.18	1234.78	1235.00	1223.28
5/10/2021	1218.72	1237.14	1236.59	1187.12	1237.14	1239.52	1144.95	1239.52	1230.31	1153.06	1230.31	1151.29	1235.59	1162.99	1235.59	1234.89	1227.69	1234.89	1235.14	1221.77	1235.14	1236.59	1223.20
5/11/2021	NA	1236.53	1236.43	1194.97	1236.53	1228.25	1148.51	1228.25	1230.50	1153.06	1230.50	1151.36	1236.40	1164.79	1236.40	1235.38	1228.23	1235.38	1235.34	1221.77	1235.34	1236.43	1223.04
5/12/2021	NA	1237.01	1236.71	1198.59	1237.01	1229.38	1149.46	1229.38	1231.26	1152.17	1231.26	1152.12	1237.54	1172.91	1237.54	1236.31	1229.23	1236.31	1236.09	1221.84	1236.09	1236.71	1223.72
5/13/2021	NA	1240.09	1239.78	1200.11	1240.09	1232.38	1149.56	1232.38	1234.57	1153.97	1234.57	1155.91	1240.69	1176.42	1240.69	1239.46	1232.55	1239.46	1239.22	1225.55	1239.22	1239.78	1227.13
5/14/2021	NA	1242.68	1242.25	1202.96	1242.68	1235.01	1150.83	1235.01	1237.53	1154.45	1237.53	1158.68	1243.48	1178.76	1243.48	1242.06	1235.18	1242.06	1241.67	1227.19	1241.67	1242.25	1229.72
5/15/2021	NA	1244.88	1244.44	1208.29	1244.88	1237.28	1151.50	1237.28	1239.70	1154.62	1239.70	1160.20	1245.32	1180.12	1245.32	1243.85	1237.01	1243.85	1243.50	1229.36	1243.50	1244.44	1231.55
5/16/2021	NA	1245.78	1245.38	1211.00	1245.78	1238.26	1152.27	1238.26	1240.82	1154.64	1240.82	1161.46	1246.43	1181.17	1246.43	1244.89	1238.34	1244.89	1244.46	1230.77	1244.46	1245.38	1232.30
5/17/2021	1234.98	1246.11	1245.64	1211.18	1246.11	1238.50	1152.27	1238.50	1241.18	1154.63	1241.18	1160.55	1246.95	1180.92	1246.95	1245.23	1238.90	1245.23	1244.74	1230.75	1244.74	1245.64	1232.42
5/18/2021	1229.39	1246.75	1244.70	1227.25	1246.75	1239.67	1152.43	1239.67	1241.00	1154.38	1241.00	1159.48	1246.05	1179.95	1246.05	1244.56	1238.05	1244.56	1244.22	1230.28	1244.22	1244.70	1232.48
5/19/2021	1227.16	1245.16	1242.74	NA	1245.16	1237.52	1152.06	1237.52	1239.56	1154.17	1239.56	1158.45	1244.45	1179.14	1244.45	1243.32	1237.49	1243.32	1243.08	1229.26	1243.08	1242.74	1231.72
5/20/2021	1224.83	1242.84	1240.24	NA	1242.84	1235.31	1152.11	1235.31	1236.78	1153.54	1236.78	1154.83	1241.25	1176.19	1241.25	1240.47	1234.36	1240.47	1240.42	1226.82	1240.42	1240.24	1229.23
5/21/2021	1222.75	1240.53	1238.10	NA	1240.53	1232.70	1151.54	1232.70	1234.36	1152.93	1234.36	1152.09	1239.06	1173.72	1239.06	1238.22	1232.40	1238.22	1238.16	1224.49	1238.16	1238.10	1226.43
5/22/2021	1221.94	1239.71	1237.15	NA	1239.71	1231.83	1151.42	1231.83	1233.26	1152.58	1233.26	1150.77	1237.90	1172.56	1237.90	1237.12	1231.67	1237.12	1237.15	1223.55	1237.15	1237.15	1225.33
5/23/2021	1221.39	1239.38	1236.59	NA	1239.38	1231.49	1151.15	1231.49	1232.56	1152.46	1232.56	1149.84	1237.25	1171.98	1237.25	1236.57	1231.43	1236.57	1236.62	1223.00	1236.62	1236.59	1225.14
5/24/2021	1220.31	1237.79	1235.61	NA	1237.79	1230.01	1150.81	1230.01	1231.65	1152.10	1231.65	1148.39	1236.42	1170.80	1236.42	1235.63							

Table 3. June 2021 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
6/1/2021	1219.87	1236.91	1235.40	1200.90	1236.91	1229.09	1151.71	1229.09	1222.11	1152.17	1222.11	1148.87	1235.74	1162.54	1235.74	1235.45	1232.47	1235.45	1235.72	1222.91	1235.72	1235.40	1224.97
6/2/2021	1218.16	1234.80	1233.48	1198.46	1234.80	1227.05	NA	1227.05	1219.80	1151.82	1219.80	1145.87	1234.42	1158.67	1234.42	1233.59	1230.46	1233.59	1233.55	1220.19	1233.55	1233.48	1221.97
6/3/2021	1217.74	1234.05	1233.16	1198.11	1234.05	1226.42	NA	1226.42	1219.39	1151.81	1219.39	1145.47	1234.28	1158.50	1234.28	1233.35	1230.33	1233.35	1233.26	1219.90	1233.26	1233.16	1221.58
6/4/2021	1218.17	1234.29	1233.76	1198.27	1234.29	1226.61	NA	1226.61	1219.89	1151.78	1219.89	1145.84	1235.25	1159.35	1235.25	1234.05	1231.19	1234.05	1233.82	1220.37	1233.82	1233.76	1222.13
6/5/2021	1219.48	1237.25	1236.50	1195.30	1237.25	1228.99	NA	1228.99	1221.61	1147.29	1221.61	1137.16	1237.91	1153.03	1237.91	1236.80	1234.41	1236.80	1236.98	1221.81	1236.98	1236.50	1223.46
6/6/2021	1220.93	1238.86	1237.98	1196.49	1238.86	1230.65	NA	1230.65	1224.10	1147.25	1224.10	1137.86	1239.47	1154.50	1239.47	1238.36	1236.12	1238.36	1238.50	NA	1238.50	1237.98	1224.97
6/7/2021	1222.41	1239.52	1238.44	1204.26	1239.52	1231.85	NA	1231.85	1225.95	1150.77	1225.95	1150.18	1240.76	1161.20	1240.76	1239.17	1236.74	1239.17	1238.74	1226.05	1238.74	1238.44	1225.76
6/8/2021	1224.00	1240.43	1239.45	1208.55	1240.43	1232.51	NA	1232.51	1226.08	1152.02	1226.08	1158.47	1242.21	1169.27	1242.21	1240.37	1237.95	1240.37	1239.59	1225.55	1239.59	1239.45	1226.28
6/9/2021	1225.62	1241.67	1240.73	1207.52	1241.67	1233.72	1175.66	1233.72	1232.99	1151.25	1232.99	1157.26	1243.61	1175.09	1243.61	1241.93	1234.43	1241.93	1241.10	1227.51	1241.10	1240.73	1229.12
6/10/2021	1226.13	1242.28	1241.26	1210.93	1242.28	1234.26	1170.50	1234.26	1237.63	1150.74	1237.63	1159.52	1244.37	1179.18	1244.37	1242.64	1234.65	1242.64	1241.66	1227.13	1241.66	1241.26	1229.83
6/11/2021	1227.01	1243.45	1242.11	1217.39	1243.45	1235.27	1170.36	1235.27	1238.51	1149.40	1238.51	1158.67	1245.22	1194.45	1245.22	1243.71	1235.91	1243.71	1242.70	1227.58	1242.70	1242.11	1233.14
6/12/2021	1227.35	1243.51	1242.31	1215.67	1243.51	1235.45	1170.01	1235.45	1238.70	1150.15	1238.70	1157.40	1245.49	1196.82	1245.49	1243.96	1236.24	1243.96	1242.91	1228.15	1242.91	1242.31	1232.24
6/13/2021	1227.35	1242.91	1242.06	1215.12	1242.91	1234.56	1169.16	1234.56	1238.06	1149.85	1238.06	1154.11	1245.23	1181.62	1245.23	1243.46	1235.88	1243.46	1242.50	1227.67	1242.50	1242.06	1231.70
6/14/2021	1227.39	1242.32	1241.62	1215.11	1242.32	1234.09	1169.63	1234.09	1237.51	1150.72	1237.51	1162.74	1244.42	1178.29	1244.42	1242.97	1234.60	1242.97	1241.91	1228.21	1241.91	1241.62	1231.94
6/15/2021	1224.88	1239.69	1240.06	1210.28	1239.69	1231.65	1167.17	1231.65	1230.16	1151.62	1230.16	1175.41	1242.29	1176.52	1242.29	1241.06	1232.42	1241.06	1240.06	1224.95	1240.06	1240.06	1229.20
6/16/2021	1222.74	1237.55	1237.28	1205.45	1237.55	1229.83	1163.57	1229.83	1234.70	1168.03	1234.70	1151.18	1240.27	1164.24	1240.27	1238.78	1230.13	1238.78	1237.73	1219.75	1237.73	1237.28	1227.21
6/17/2021	1221.21	1236.02	1235.66	1203.71	1236.02	1228.46	1163.92	1228.46	1232.65	NA	1232.65	1146.94	1237.92	1166.04	1237.92	1236.77	1228.31	1236.77	1235.94	1218.94	1235.94	1235.66	1225.49
6/18/2021	1219.90	1233.56	1234.35	1202.58	1233.56	1226.81	1163.69	1226.81	1230.34	NA	1230.34	1145.11	1235.79	1164.59	1235.79	1234.50	1226.81	1234.50	1234.43	1217.42	1234.43	1234.35	1224.09
6/19/2021	1219.04	1233.98	1233.42	1201.71	1233.98	1226.54	1163.72	1226.54	1230.73	NA	1230.73	1143.80	1235.23	1163.06	1235.23	1234.22	1225.93	1234.22	1233.49	1216.43	1233.49	1233.42	1223.22
6/20/2021	1218.47	1233.35	1232.89	1201.02	1233.35	1225.92	1163.90	1225.92	1230.04	NA	1230.04	1142.63	1234.62	1162.44	1234.62	1233.62	1225.47	1233.62	1232.95	1215.91	1232.95	1232.89	1222.61
6/21/2021	1216.80	1231.00	1231.34	1198.83	1231.00	1222.65	1164.13	1222.65	1227.77	NA	1227.77	1141.02	1233.49	1161.49	1233.49	1232.42	1224.29	1232.42	1231.62	1214.56	1231.62	1231.34	1220.80
6/22/2021	1215.18	1228.88	1229.42	1196.35	1228.88	1220.11	1164.27	1220.11	1226.01	NA	1226.01	1138.67	1232.47	1159.90	1232.47	1231.15	1223.01	1231.15	1230.21	1213.05	1230.21	1229.42	1218.97
6/23/2021	1215.57	1229.31	1230.33	1197.10	1229.31	1220.64	1165.56	1220.64	1226.77	NA	1226.77	1139.38	1232.75	1160.23	1232.75	1231.43	1223.45	1231.43	1230.53	1213.24	1230.53	1230.33	1219.46
6/24/2021	1216.34	1230.24	1231.45	1201.21	1230.24	1221.58	1165.61	1221.58	1227.53	NA	1227.53	1138.98	1233.83	1160.19	1233.83	1232.34	1224.50	1232.34					

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1a. Q2 Water Levels

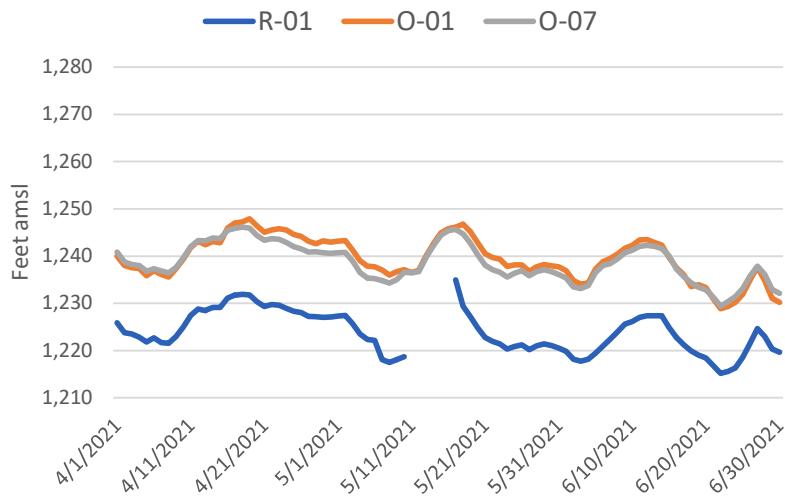


Figure 1b. Q2 Water Levels

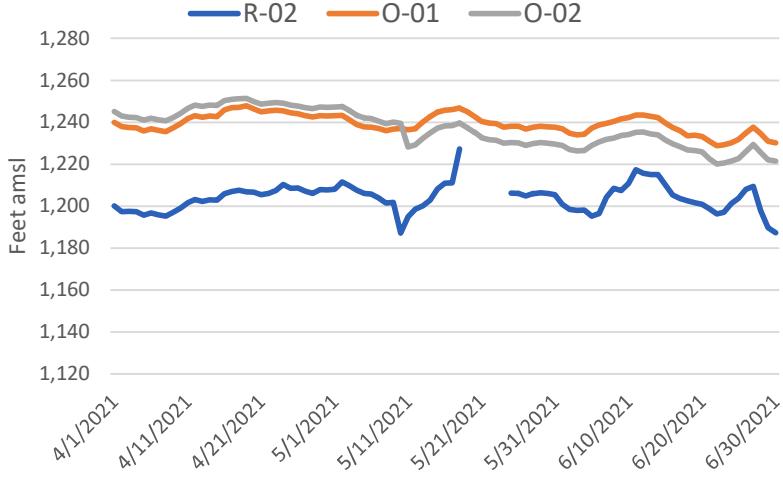


Figure 1c. Q2 Water Levels

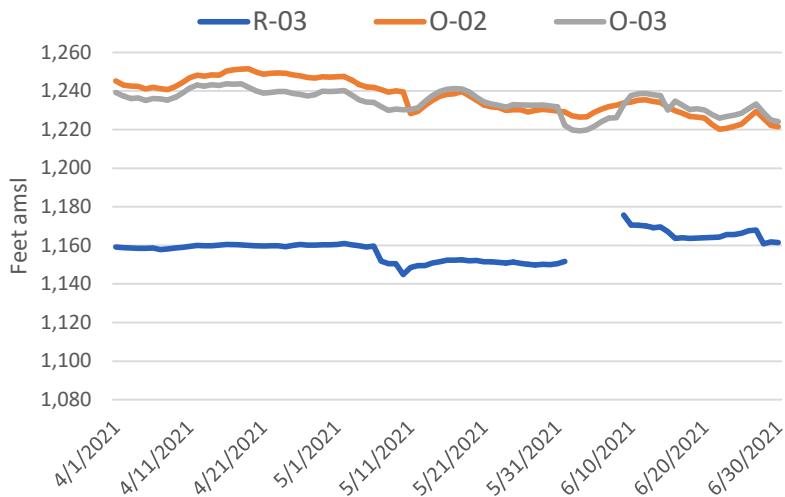
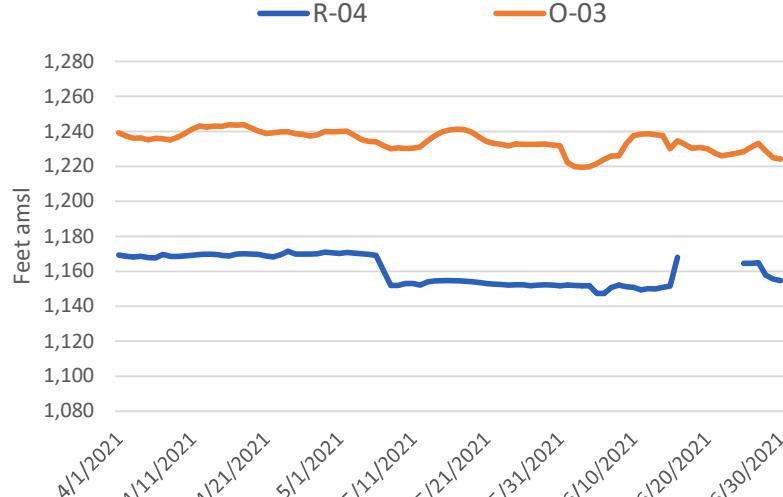


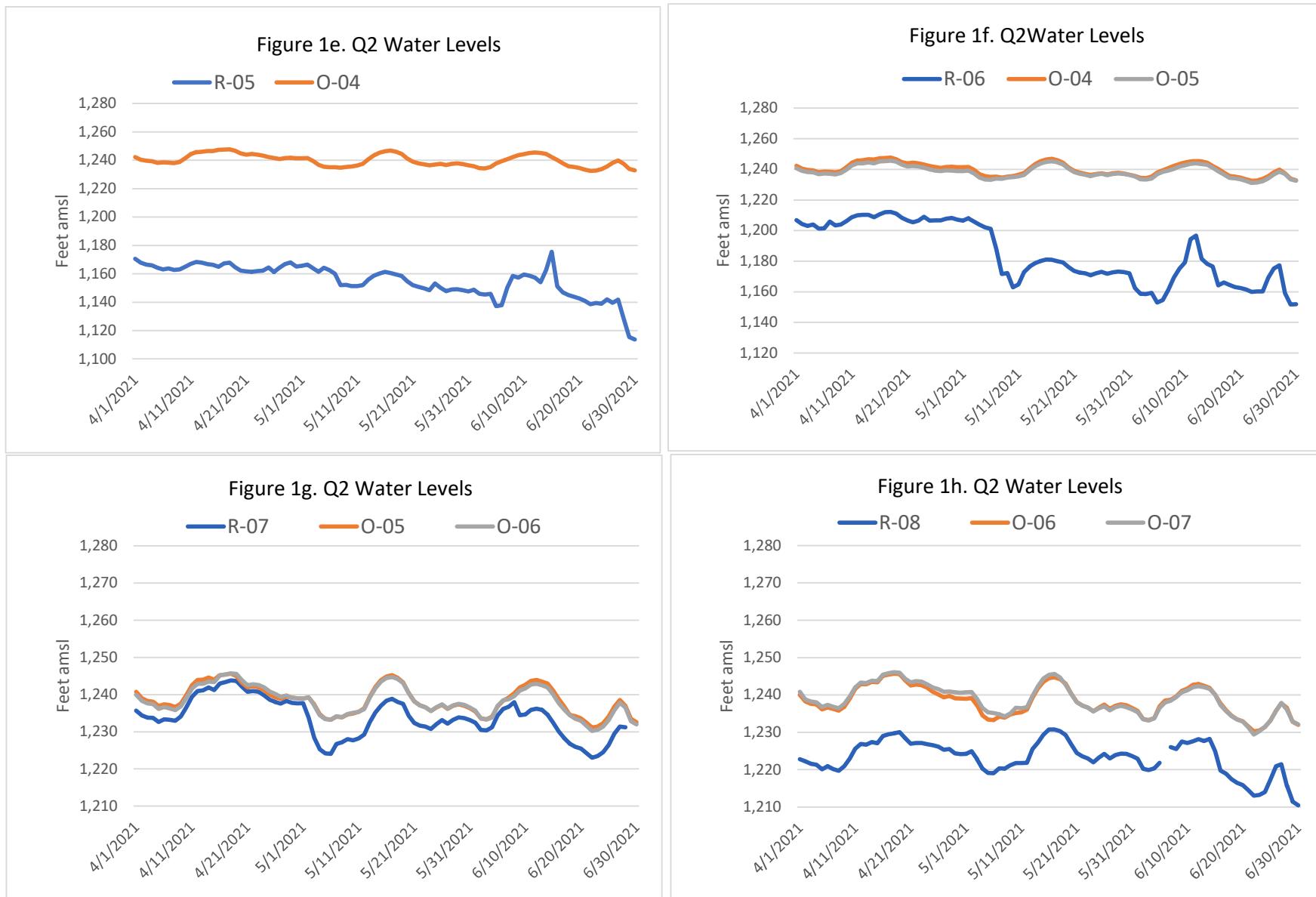
Figure 1d. Q2 Water Levels



Notes:

Refer to preceding Daily Average Water Level Elevation Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Q2 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. April 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
4/1/2021	14.15	14.98	39.79	44.90	86.06	80.22	70.03	71.66	35.50	33.94	5.08	4.29	17.15	18.01	Yes
4/2/2021	14.23	15.01	40.53	45.65	84.38	78.65	68.80	72.59	36.12	34.72	4.65	3.89	16.04	16.56	Yes
4/3/2021	14.06	14.75	40.00	44.94	83.85	77.47	68.01	73.21	36.69	35.28	4.47	3.84	16.04	16.65	Yes
4/4/2021	14.51	15.13	39.98	44.93	83.93	77.96	67.73	73.46	35.42	34.04	4.33	3.73	16.14	16.66	Yes
4/5/2021	14.02	14.92	40.13	45.32	82.60	76.66	67.37	73.87	36.76	35.54	4.31	3.52	16.07	16.72	Yes
4/6/2021	14.23	14.63	40.14	45.14	83.35	77.51	68.56	75.38	37.00	35.85	4.02	3.28	15.75	16.46	Yes
4/7/2021	14.44	15.13	40.25	45.36	83.45	78.02	66.16	74.61	32.47	31.20	3.90	3.01	16.09	16.65	Yes
4/8/2021	14.02	14.87	40.23	45.44	82.59	77.02	66.64	75.34	34.69	33.31	3.73	2.86	16.09	16.72	Yes
4/9/2021	14.38	14.64	40.14	45.07	83.63	78.00	68.27	75.68	34.81	33.56	3.45	2.73	15.90	16.64	Yes
4/10/2021	14.33	14.61	40.20	45.15	85.31	79.89	70.12	76.49	35.26	33.72	3.31	2.45	16.02	16.60	Yes
4/11/2021	14.35	14.58	40.11	45.09	87.24	81.94	72.11	77.21	35.59	33.82	3.15	2.22	16.05	16.47	Yes
4/12/2021	14.37	14.52	39.95	44.96	88.19	83.04	73.40	77.40	35.76	33.96	2.99	1.99	16.03	16.43	Yes
4/13/2021	13.95	14.73	40.05	45.24	87.79	82.72	72.88	78.12	35.65	33.66	2.88	1.75	16.19	16.52	Yes
4/14/2021	13.94	14.69	40.01	45.23	88.43	83.28	73.51	79.72	36.30	34.34	2.69	1.57	16.13	16.47	Yes
4/15/2021	13.66	14.54	39.94	45.24	87.90	82.72	73.90	80.17	37.79	35.33	2.76	2.13	16.30	16.61	Yes
4/16/2021	14.89	14.40	39.97	44.35	89.94	83.34	75.06	82.34	36.64	34.54	2.27	2.16	16.14	16.45	Yes
4/17/2021	15.27	14.12	39.95	43.96	90.77	83.32	73.68	80.19	35.49	33.37	2.05	2.11	15.97	16.39	Yes
4/18/2021	15.30	14.17	39.58	43.63	90.99	83.46	73.65	79.90	35.52	33.42	1.83	1.92	15.99	16.39	Yes
4/19/2021	16.10	14.13	41.03	44.54	91.43	81.95	72.17	82.05	35.56	33.85	1.35	1.91	15.50	15.86	Yes
4/20/2021	16.09	14.01	39.68	43.12	90.08	80.27	70.50	82.56	36.28	34.69	1.08	1.81	15.46	15.91	Yes
4/21/2021	15.76	14.03	39.61	43.21	89.00	79.18	70.06	82.25	37.24	35.23	1.23	1.80	15.57	16.38	Yes
4/22/2021	15.79	14.00	39.42	43.07	89.41	79.50	70.99	82.99	39.03	36.85	1.29	1.84	15.63	16.58	Yes
4/23/2021	16.15	13.91	38.35	41.98	89.60	79.99	70.36	82.21	37.49	35.41	1.16	1.84	15.45	16.38	Yes
4/24/2021	16.62	13.95	35.13	38.76	89.83	80.45	68.28	81.03	34.17	32.12	1.38	2.13	15.14	16.06	Yes
4/25/2021	16.27	13.67	36.12	39.77	88.27	78.74	68.86	77.70	35.70	33.49	1.38	2.20	14.27	15.45	Yes
4/26/2021	16.09	13.51	35.37	39.09	87.47	77.91	68.46	80.31	34.91	32.63	1.24	2.10	14.00	15.40	Yes
4/27/2021	15.96	13.60	36.01	39.77	86.86	77.29	67.51	76.64	34.18	32.17	1.29	1.79	14.09	15.53	Yes
4/28/2021	15.44	13.69	36.52	40.50	86.50	77.91	67.93	74.76	33.72	31.60	1.17	1.47	14.23	15.36	Yes
4/29/2021	16.19	13.70	35.19	39.38	87.08	79.63	69.11	73.77	33.46	30.95	1.41	1.30	14.75	16.38	Yes
4/30/2021	15.86	13.45	35.15	39.34	86.96	79.57	69.22	76.31	34.22	31.78	1.35	1.37	14.82	16.39	Yes

Notes:

All measurements in elevation above mean sea level.

Q2 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. May 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
5/1/2021	15.81	13.36	35.01	39.17	86.88	79.55	69.67	75.75	34.84	32.41	1.26	1.27	14.76	16.49	Yes
5/2/2021	15.84	13.32	31.65	35.90	86.68	79.33	69.49	75.12	33.57	31.24	5.45	5.39	14.24	15.83	Yes
5/3/2021	15.62	13.26	31.55	35.89	85.41	77.71	67.51	75.74	33.67	31.42	8.96	8.77	14.41	16.15	Yes
5/4/2021	15.47	12.96	31.41	35.71	83.54	75.69	65.47	75.45	33.04	-42.41	9.40	9.22	14.22	16.21	Yes
5/5/2021	15.53	13.02	31.77	36.02	82.92	75.02	64.57	71.26	33.47	31.41	9.27	9.22	14.25	16.21	Yes
5/6/2021	15.60	13.02	31.89	36.04	82.31	74.47	64.86	72.54	33.98	32.06	9.14	9.18	14.18	16.10	Yes
5/7/2021	19.00	16.73	33.15	36.74	88.81	80.08	71.51	75.11	47.16	46.02	7.33	7.47	13.88	14.48	Yes
5/8/2021	18.51	16.79	34.40	37.82	88.92	79.49	78.05	82.66	63.02	62.20	6.74	6.78	13.67	14.02	Yes
5/9/2021	18.63	16.91	34.89	38.26	89.64	80.12	78.76	83.08	63.11	62.46	6.62	6.74	13.60	13.82	Yes
5/10/2021	18.42	17.87	50.01	52.39	94.57	85.37	77.25	84.30	72.32	71.90	7.20	7.44	13.37	14.82	Yes
5/11/2021	NA	NA	41.56	33.28	79.74	81.99	77.44	85.05	71.61	70.59	7.15	7.11	13.57	14.67	Yes
5/12/2021	NA	NA	38.42	30.79	79.92	81.80	79.09	85.42	64.63	63.40	7.08	6.85	14.25	14.88	Yes
5/13/2021	NA	NA	39.99	32.27	82.82	85.01	80.60	84.77	64.27	63.05	6.91	6.67	13.68	14.23	Yes
5/14/2021	NA	NA	39.72	32.05	84.18	86.70	83.08	84.80	64.72	63.30	6.88	6.49	14.48	15.06	Yes
5/15/2021	NA	NA	36.59	28.99	85.78	88.20	85.08	85.12	65.20	63.73	6.84	6.49	14.14	15.08	Yes
5/16/2021	NA	NA	34.78	27.26	85.99	88.55	86.18	84.97	65.26	63.72	6.55	6.12	13.69	14.62	Yes
5/17/2021	11.13	10.66	34.93	27.33	86.23	88.90	86.54	86.40	66.03	64.32	6.33	5.84	13.99	14.89	Yes
5/18/2021	17.36	15.31	19.49	12.41	87.24	88.58	86.63	86.57	66.10	64.61	6.51	6.17	13.94	14.42	Yes
5/19/2021	18.00	15.57	NA	NA	85.46	87.49	85.38	86.00	65.31	64.18	5.83	5.59	13.82	13.48	Yes
5/20/2021	18.01	15.41	NA	NA	83.20	84.67	83.24	86.42	65.07	64.28	6.11	6.06	13.60	13.42	Yes
5/21/2021	17.78	15.35	NA	NA	81.16	82.82	81.43	86.97	65.34	64.50	5.82	5.76	13.67	13.61	Yes
5/22/2021	17.77	15.21	NA	NA	80.41	81.84	80.68	87.13	65.34	64.56	5.45	5.48	13.60	13.60	Yes
5/23/2021	17.99	15.20	NA	NA	80.34	81.41	80.10	87.41	65.27	64.59	5.14	5.19	13.62	13.59	Yes
5/24/2021	17.49	15.30	NA	NA	79.20	80.84	79.56	88.03	65.63	64.83	4.89	4.85	13.65	13.67	Yes
5/25/2021	17.25	15.50	31.85	24.05	78.98	81.51	80.66	83.87	64.90	64.34	4.47	4.56	13.39	13.17	Yes
5/26/2021	16.93	15.71	32.01	24.15	79.64	82.04	80.43	87.36	64.38	64.10	4.06	4.23	13.14	12.69	Yes
5/27/2021	16.60	15.66	32.01	24.24	78.90	NA	NA	88.86	64.84	64.31	4.00	4.10	13.26	12.87	Yes
5/28/2021	16.74	15.67	31.76	23.96	80.10	82.74	80.41	88.44	64.68	64.21	3.80	3.92	13.20	12.77	Yes
5/29/2021	16.78	15.69	31.75	24.02	80.29	82.58	80.56	88.71	64.69	64.22	3.54	3.64	13.21	12.81	Yes
5/30/2021	16.84	15.66	31.80	24.03	80.18	82.32	80.28	88.72	64.38	64.12	3.34	3.55	12.99	12.50	Yes
5/31/2021	17.20	15.59	32.23	24.07	79.07	81.19	79.88	88.83	64.36	64.15	3.19	3.40	12.88	12.47	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 redevelopment May 11-16, 2021

R-02 redevelopment May 19-23, 2021

O-03 redeveloped May 27, 2021

Q2 2021 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 6. June 2021 Daily Hydraulic Gradient for Recovery Well Pairings

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients > 1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
6/1/2021	17.05	15.53	36.01	28.18	77.37	70.39	69.93	86.87	73.21	72.91	2.98	3.26	12.81	12.49	Yes
6/2/2021	16.64	15.32	36.33	28.59	NA	NA	67.98	88.54	75.75	74.93	3.13	3.09	13.36	13.28	Yes
6/3/2021	16.31	15.42	35.95	28.31	NA	NA	67.58	88.81	75.78	74.85	3.01	2.92	13.36	13.27	Yes
6/4/2021	16.11	15.58	36.02	28.34	NA	NA	68.11	89.41	75.91	74.71	2.86	2.62	13.45	13.39	Yes
6/5/2021	17.76	17.01	41.95	33.69	NA	NA	74.32	100.76	84.88	83.77	2.40	2.57	15.17	14.69	Yes
6/6/2021	17.93	17.05	42.37	34.16	NA	NA	76.85	101.60	84.97	83.86	2.25	2.38	NA	NA	Yes
6/7/2021	17.11	16.03	35.26	27.59	NA	NA	75.17	90.58	79.57	77.97	2.43	2.00	12.69	12.39	Yes
6/8/2021	16.43	15.45	31.88	23.96	NA	NA	74.06	83.74	72.94	71.10	2.42	1.65	14.04	13.90	Yes
6/9/2021	16.05	15.11	34.16	26.21	58.06	57.33	81.73	86.35	68.52	66.84	7.50	6.67	13.59	13.22	Yes
6/10/2021	16.15	15.13	31.35	23.32	63.76	67.14	86.89	84.86	65.19	63.46	7.99	7.01	14.53	14.13	Yes
6/11/2021	16.44	15.10	26.06	17.88	64.91	68.15	89.11	86.55	50.77	49.26	7.80	6.79	15.12	14.53	Yes
6/12/2021	16.16	14.96	27.84	19.78	65.44	68.69	88.55	88.09	48.67	47.14	7.72	6.67	14.76	14.16	Yes
6/13/2021	15.56	14.71	27.79	19.44	65.40	68.90	88.22	91.12	63.61	61.84	7.58	6.62	14.82	14.39	Yes
6/14/2021	14.93	14.24	27.21	18.98	64.46	67.88	86.79	81.68	66.14	64.68	8.37	7.32	13.70	13.41	Yes
6/15/2021	14.81	15.18	29.41	21.38	64.49	62.99	78.54	66.88	65.77	64.54	8.64	7.64	15.11	15.11	Yes
6/16/2021	14.80	14.54	32.10	24.38	66.26	71.13	66.67	89.08	76.03	74.54	8.65	7.60	17.99	17.54	Yes
6/17/2021	14.81	14.45	32.31	24.75	64.54	68.73	NA	90.97	71.88	70.73	8.46	7.64	17.00	16.72	Yes
6/18/2021	13.66	14.45	30.98	24.23	63.12	66.65	NA	90.68	71.20	69.91	7.69	7.62	17.01	16.93	Yes
6/19/2021	14.94	14.38	32.27	24.83	62.82	67.01	NA	91.43	72.18	71.16	8.29	7.57	17.06	16.98	Yes
6/20/2021	14.88	14.41	32.33	24.90	62.01	66.13	NA	91.99	72.18	71.17	8.14	7.48	17.04	16.98	Yes
6/21/2021	14.20	14.55	32.17	23.82	58.52	63.64	NA	92.47	71.99	70.93	8.14	7.33	17.06	16.79	Yes
6/22/2021	13.71	14.24	32.53	23.76	55.84	61.74	NA	93.80	72.58	71.25	8.14	7.20	17.16	16.37	Yes
6/23/2021	13.74	14.76	32.21	23.53	55.08	61.21	NA	93.37	72.52	71.20	7.98	7.08	17.29	17.09	Yes
6/24/2021	13.90	15.11	29.03	20.37	55.97	61.92	NA	94.85	73.64	72.15	7.85	6.93	17.39	17.41	Yes
6/25/2021	13.34	14.59	28.12	18.98	56.43	62.09	63.86	93.62	66.36	64.91	7.67	6.72	15.79	15.78	Yes
6/26/2021	13.44	14.21	26.95	18.01	58.52	63.36	66.33	98.59	62.92	61.46	7.27	6.33	14.89	14.86	Yes
6/27/2021	12.98	13.21	28.19	19.98	61.62	65.38	68.34	97.91	62.47	61.22	7.13	6.31	16.29	16.45	Yes
6/28/2021	11.75	13.11	36.83	27.81	64.87	67.87	71.02	109.16	78.43	77.93	5.83	5.37	20.94	20.47	Yes
6/29/2021	10.72	12.60	41.25	32.38	60.35	63.18	69.46	118.46	82.35	81.90	NA	NA	21.39	21.46	Yes
6/30/2021	10.53	12.42	42.83	34.14	60.10	62.80	69.54	119.32	81.00	80.65	NA	NA	21.51	21.61	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

June 2-8: R-03 Redevelopment

June 6: R-08 Pump replacement

June 17-24: R-04 Redevelopment

June 29-30: R-07 Redevelopment

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1 i. Hydraulic Gradient for Wells Paired with R-01

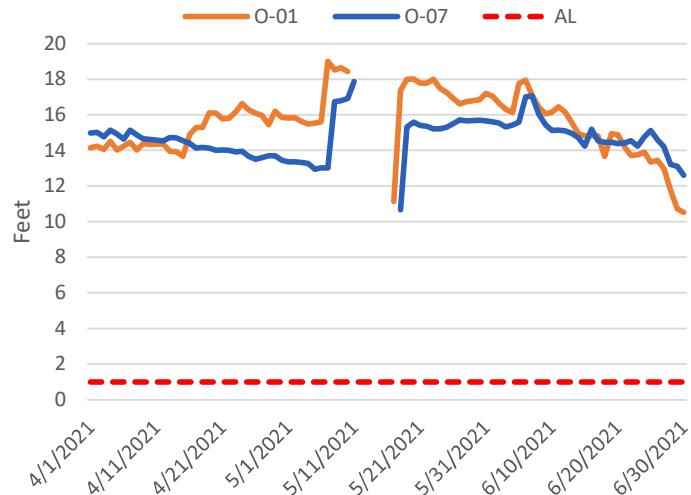


Figure 1j. Hydraulic Gradient for Wells Paired with R-02

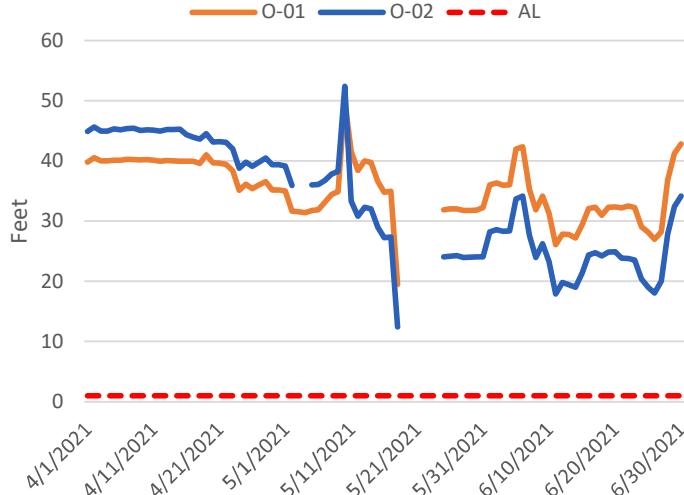


Figure 1k. Hydraulic Gradient for Wells Paired with R-03

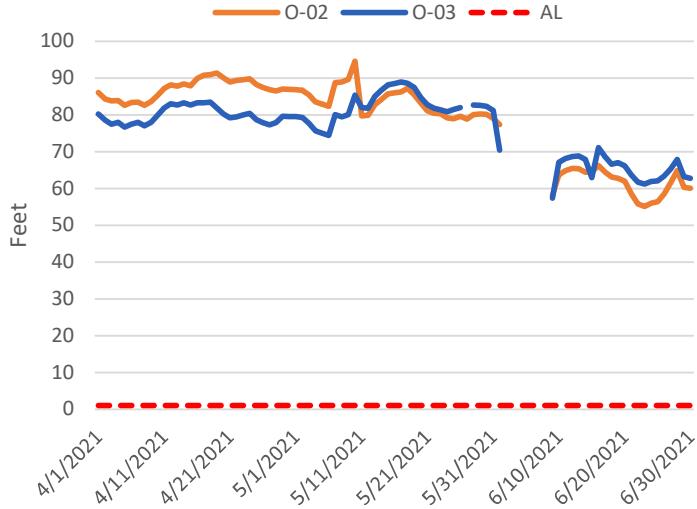
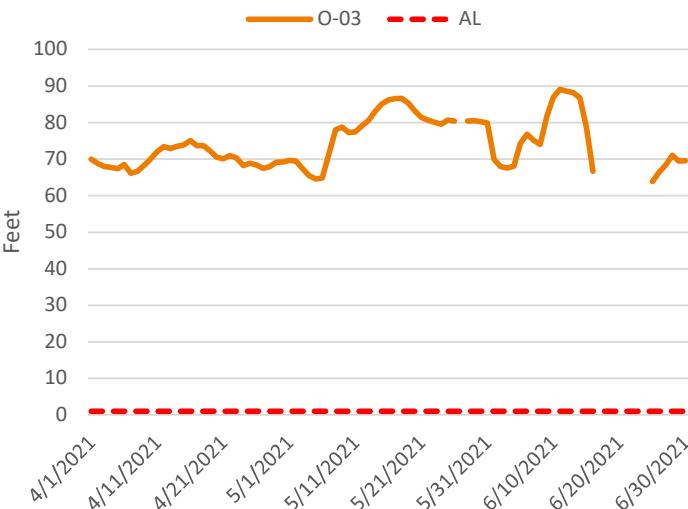


Figure 1l. Hydraulic Gradient for Wells Paired with R-04



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1m. Hydraulic Gradient for Wells Paired with R-05

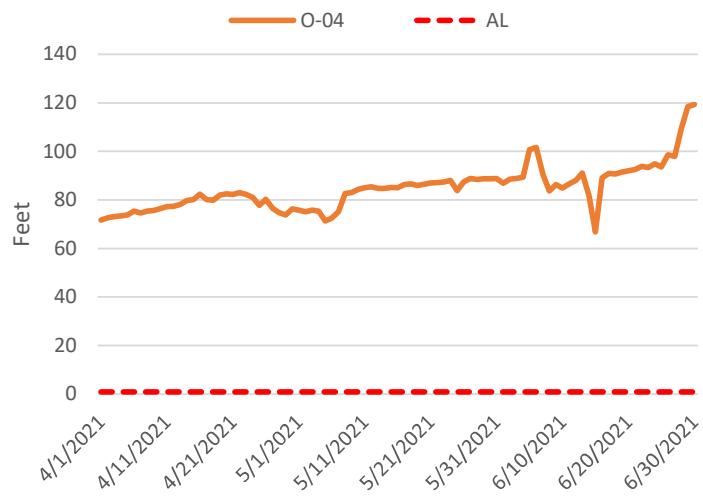


Figure 1n. Hydraulic Gradient for Wells Paired with R-06

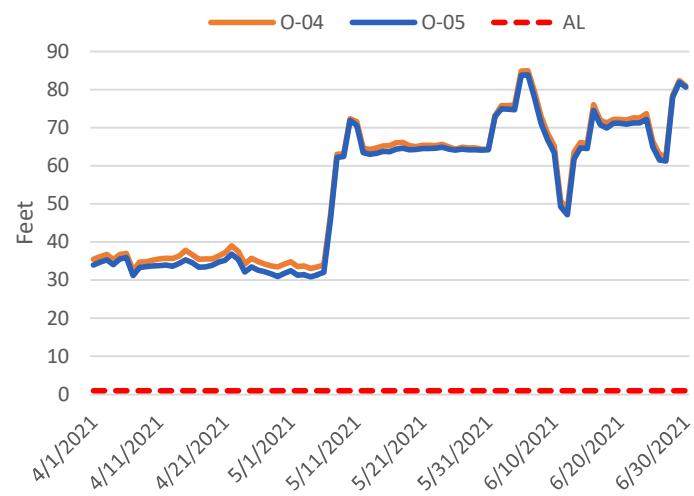


Figure 1o. Hydraulic Gradient for Wells Paired with R-07

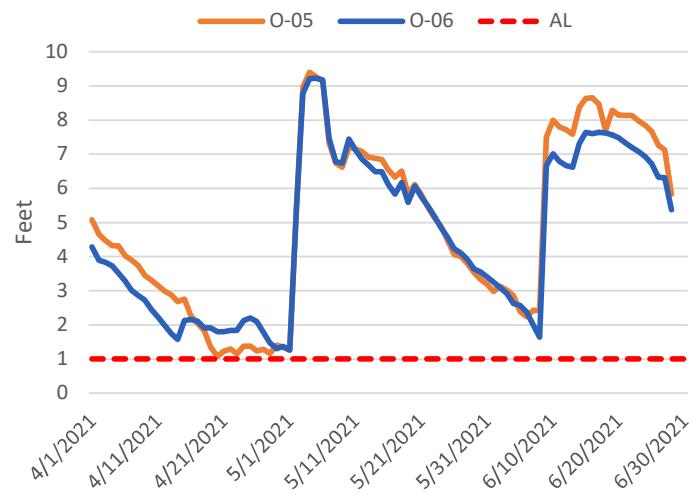
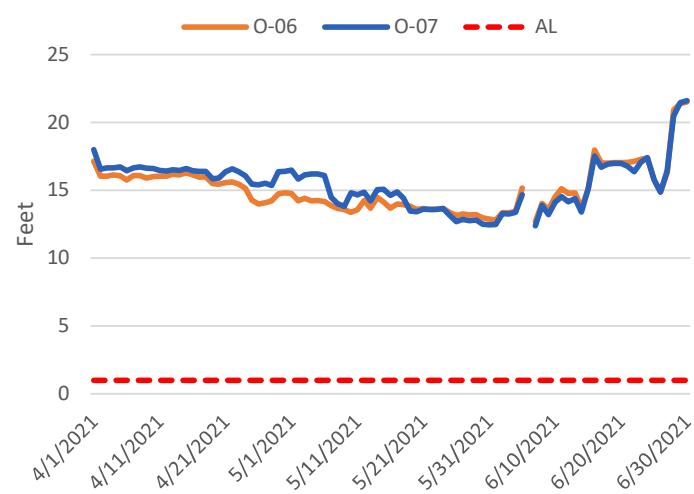


Figure 1p. Hydraulic Gradient for Wells Paired with R-08

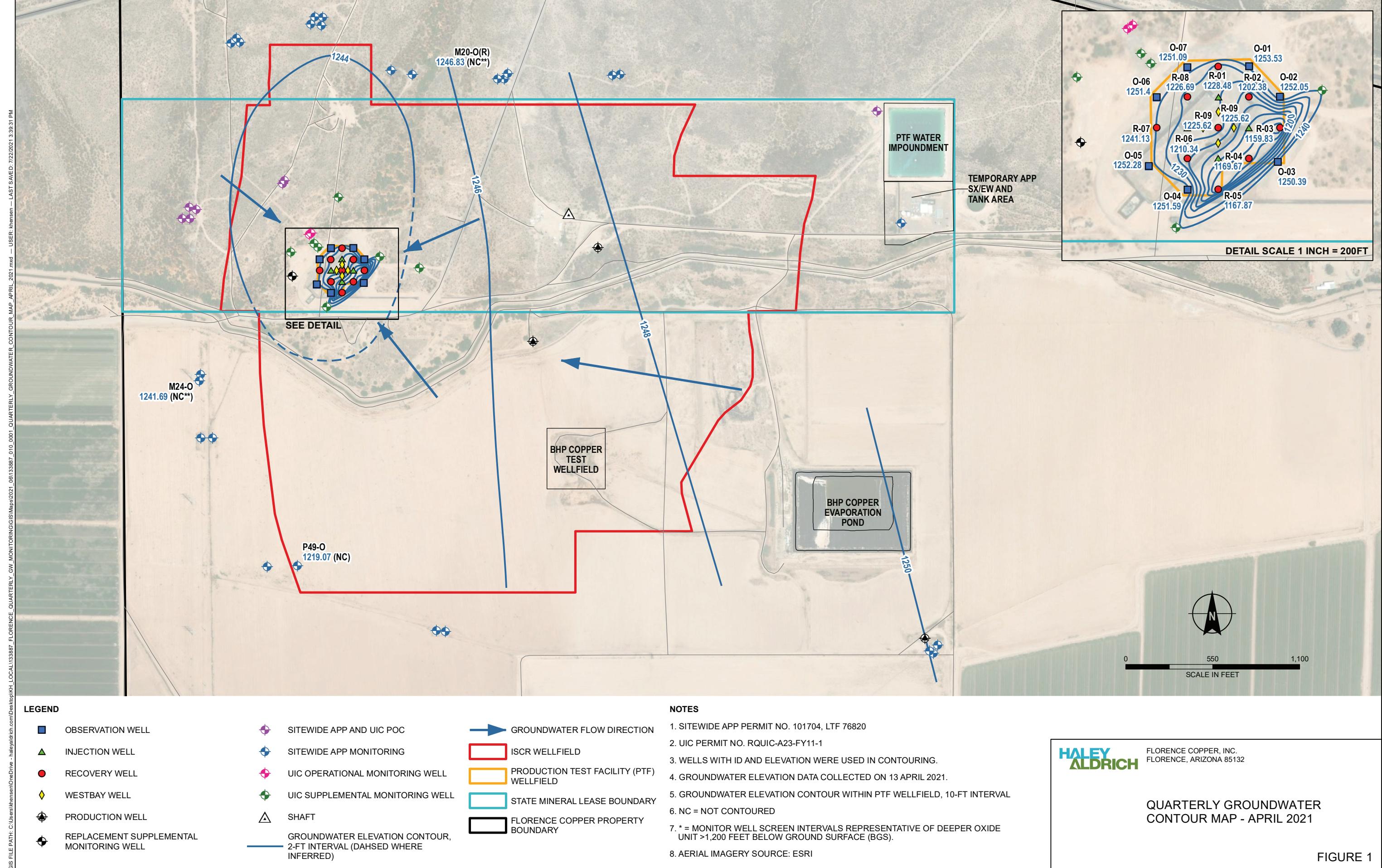


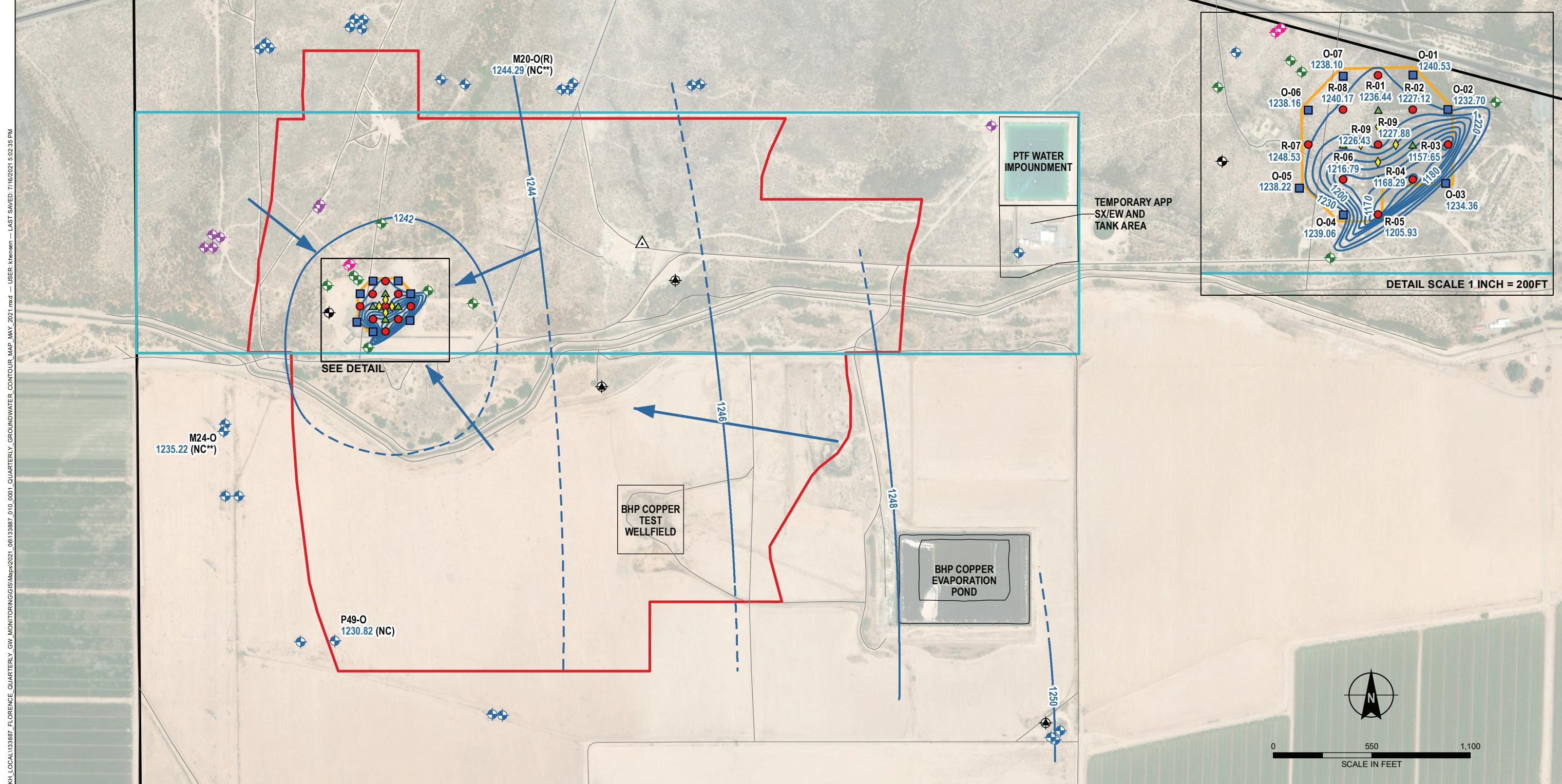
Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

ATTACHMENT 3

Monthly Potentiometric Surface Maps





LEGEND

- OBSERVATION WELL
- INJECTION WELL
- RECOVERY WELL
- WESTBAY WELL
- PRODUCTION WELL
- REPLACEMENT SUPPLEMENTAL MONITORING WELL
- SITEWIDE APP AND UIC POC
- SITEWIDE APP MONITORING
- UIC OPERATIONAL MONITORING WELL
- UIC SUPPLEMENTAL MONITORING WELL
- SHAFT
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL (DAHSED WHERE INFERRED)

NOTES

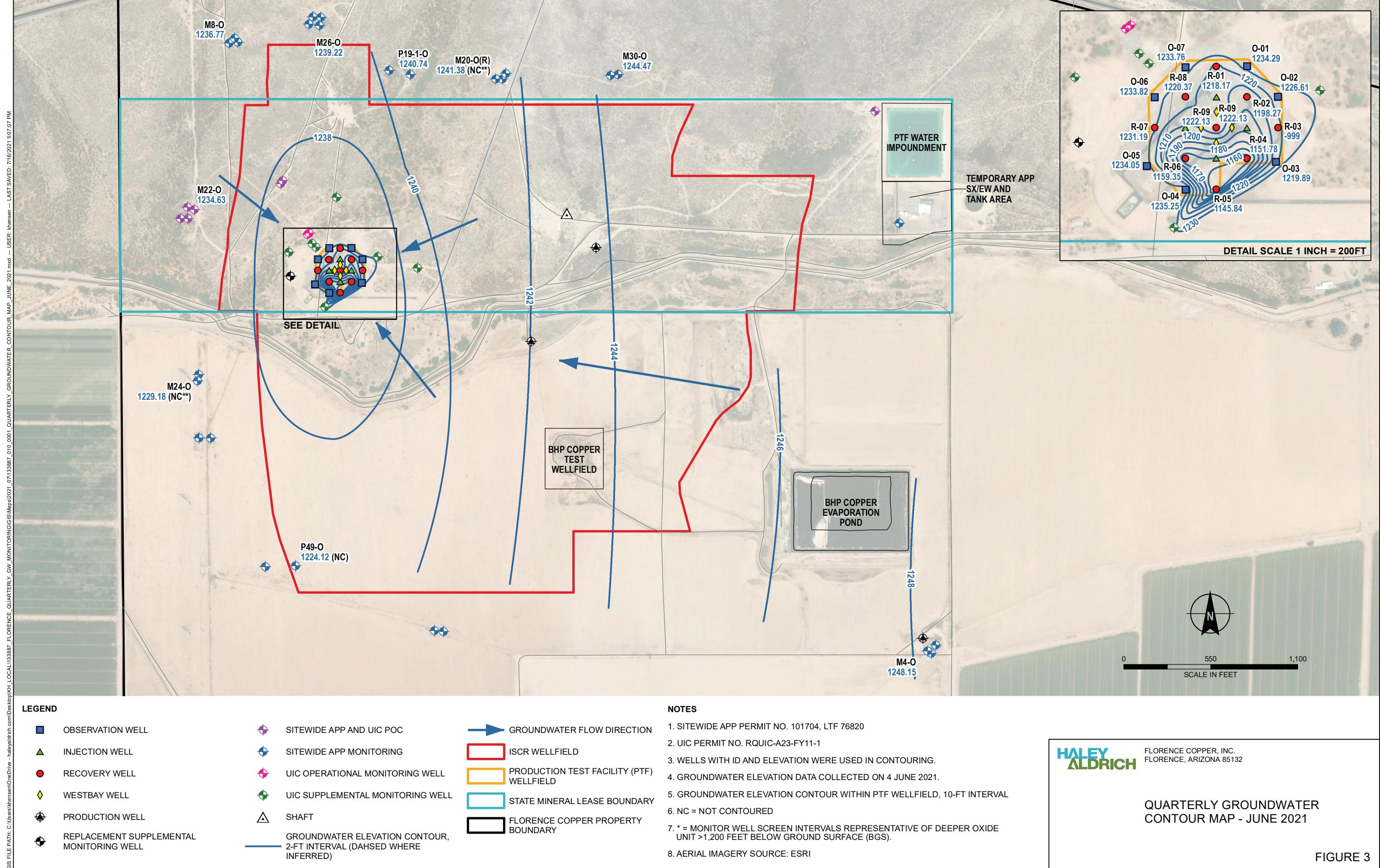
1. SITEWIDE APP PERMIT NO. 101704, LTF 76820
2. UIC PERMIT NO. RQUIC-A23-FY11-1
3. WELLS WITH ID AND ELEVATION WERE USED IN CONTOURING.
4. GROUNDWATER ELEVATION DATA COLLECTED ON 21 MAY 2021.
5. GROUNDWATER ELEVATION CONTOUR WITHIN PTF WELLFIELD, 10-FT INTERVAL
6. NC = NOT CONTOURED
7. * = MONITOR WELL SCREEN INTERVALS REPRESENTATIVE OF DEEPER OXIDE UNIT >1,200 FEET BELOW GROUND SURFACE (BGS).
8. AERIAL IMAGERY SOURCE: ESRI

**HALEY
ALDRICH**

FLORENCE COPPER, INC.
FLORENCE, ARIZONA 85132

QUARTERLY GROUNDWATER
CONTOUR MAP - MAY 2021

FIGURE 2



ATTACHMENT 4

Well Bore Annular Conductivity Device (ACD) Readings



ANNULAR CONDUCTIVITY DATA

QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

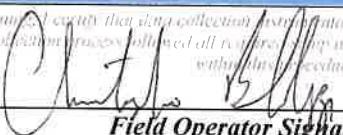
HGI Project Name: 2018-030 – FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: 88°F SUNNY
Date 4/1/2021	Field Operator Name: C. BALOYBA	Start and End Time: 1319 1413
EQUIPMENT		DIAGNOSTICS (See back of sheet for detailed instructions and procedures)
AGI MiniSting (MS) Serial #: S0608049 HGI Cray Interface Panel SN# CR-ES-002		6Ω Resistor Standard Result: 6.3571 Pass Criteria: 6.250Ω ± 0.30 Circle One: Pass or Fail
		<ul style="list-style-type: none"> • No. Cycles: 4 • Max Error: Off • Max Current: 50mA • Measure Time: 3.6 • Measure mode: RESISTANCE

DATA COLLECTION:

WELL ID	Time (24h)	Current (mA)	1			2			3			Data Acceptance Pass = P, Fail = F	
			Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)		
1	WB-04	1331	20	264	55.90	3.2	205	55.96	3.2	206	55.93	3.2	P
2	WB-03	1319	20	195	77.06	0.5	196	75.88	1.3	197	75.35	1.6	P
3	WB-02	1323	20	198	80.60	2.4	199	81.20	2.4	200	81.09	2.5	P
4	WB-01	1328	20	201	52.01	1.3	202	50.20	0.8	203	49.49	1.0	P
5	B-01	1341	20	207	71.14	0.5	208	70.27	0.8	209	70.01	0.9	P
6	B-07	1345	20	210	61.22	0.5	211	60.36	0.9	212	59.97	0.9	P
7	B-06	1350	20	213	57.65	1.2	214	55.67	1.0	215	54.96	1.2	P
8	B-05	1356	20	216	87.58	0.3	217	86.88	0.5	218	86.51	0.5	P
9	B-04	1401	20	219	53.57	1.7	220	51.61	0.6	221	51.03	0.7	P
10	B-03	1408	20	222	54.57	1.0	223	53.68	0.8	224	52.54	0.9	P
11	B-02	1413	20	225	65.48	1.8	226	65.72	1.9	227	65.53	2.0	P

228-230 RPT of WB-04

Well ID's that begin with a "B" correspond to the wells that begin with an "O" in standard reporting. For example, B-01 corresponds to O-01.

DATA QUALITY ACCEPTANCE	FIELD OBSERVATIONS
Measurement Error Evaluation Pass Criteria: 66% (2/3) of measurement error values less than 5%	<small>(Briefly describe site activities at time of data acquisition, status of electrode arrays, or other parameters that may influence readings)</small>
SIGNATURES	
<small>I declare that data collection instruments pass all required tests and the data collection process followed all required setup and programming instructions listed within this procedure.</small>  Field Operator Signature/Date 4/1/2021	<small>I certify that measurements pass all required data quality tests listed within this procedure.</small>  Data Inspector Signature/Date 4/1/2021

ATTACHMENT 5

Summary of Pressure Transducer and Fracture Gradient Readings

Q2 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. April 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
4/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.00	0.00	0.00	112.89
4/2/2021	0.00	0.00	0.00	0.92	0.00	45.62	3.97	0.03	8.07	0.00	0.00	0.00	112.89
4/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	3.60	1.34	6.54	0.00	0.00	0.00	112.89
4/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	4.04	0.00	9.64	0.00	0.00	0.00	112.89
4/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	33.74	0.00	48.01	0.20	0.00	15.23	112.89
4/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	23.52	13.68	41.26	0.00	0.00	0.00	112.89
4/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	37.18	30.00	40.95	0.00	0.00	0.00	112.89
4/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	37.10	21.61	48.39	0.00	0.00	0.00	112.89
4/9/2021	0.00	0.00	0.00	0.08	0.00	22.83	15.20	0.00	27.93	0.00	0.00	0.00	112.89
4/10/2021	0.00	0.00	0.00	0.06	0.00	18.50	27.46	16.67	36.98	0.00	0.00	0.00	112.89
4/11/2021	0.00	0.00	0.00	0.05	0.00	13.35	33.42	0.00	59.43	0.00	0.00	0.00	112.89
4/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	40.21	0.00	60.24	0.00	0.00	0.00	112.89
4/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	44.90	36.37	50.38	0.00	0.00	0.00	112.89
4/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	49.97	41.77	56.60	0.00	0.00	0.00	112.89
4/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	53.04	48.08	59.38	0.00	0.00	0.00	112.89
4/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	38.07	3.23	60.61	0.00	0.00	0.00	112.89
4/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	22.74	20.24	54.85	0.00	0.00	0.00	112.89
4/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	25.47	19.68	29.92	0.00	0.00	0.00	112.89
4/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	31.93	0.00	0.00	0.00	112.89
4/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	42.15	112.89
4/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	37.87	112.89
4/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	21.84	112.89
4/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

NM = Not measured or otherwise not available

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	112.89	psi

Q2 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. May 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
5/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/2/2021	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/7/2021	0.00	0.00	0.00	0.03	0.00	8.57	0.00	0.00	0.00	0.01	0.00	3.70	112.89
5/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/31/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

NM = Not measured or otherwise not available

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	= 0.65 psi/foot x 520 feet	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	= 520 feet / 2.31 feet/psi	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	= 338 psi - 225.11 psi	112.89	psi

Q2 2021 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. June 2021 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
6/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/8/2021	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.03	112.89
6/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

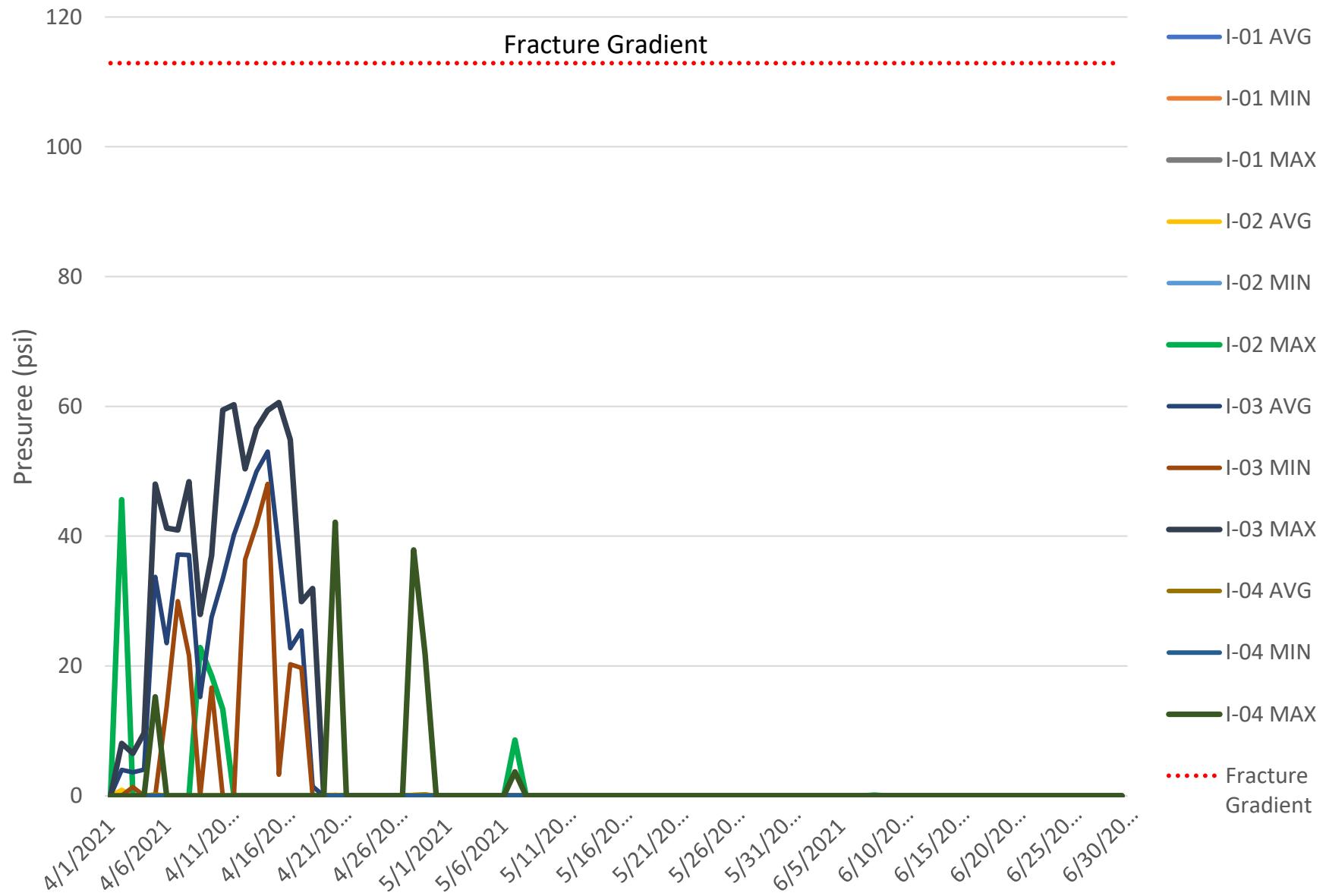
NM = Not measured or otherwise not available

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	= 0.65 psi/foot x 520 feet	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	= 520 feet / 2.31 feet/psi	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	= 338 psi - 255.1 psi	112.89	psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Q2 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. April 2021 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
4/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00	0.00	0.00	112.89
4/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	112.89
4/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
4/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

Q2 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. May 2021 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
5/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
5/31/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

Q2 2021 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

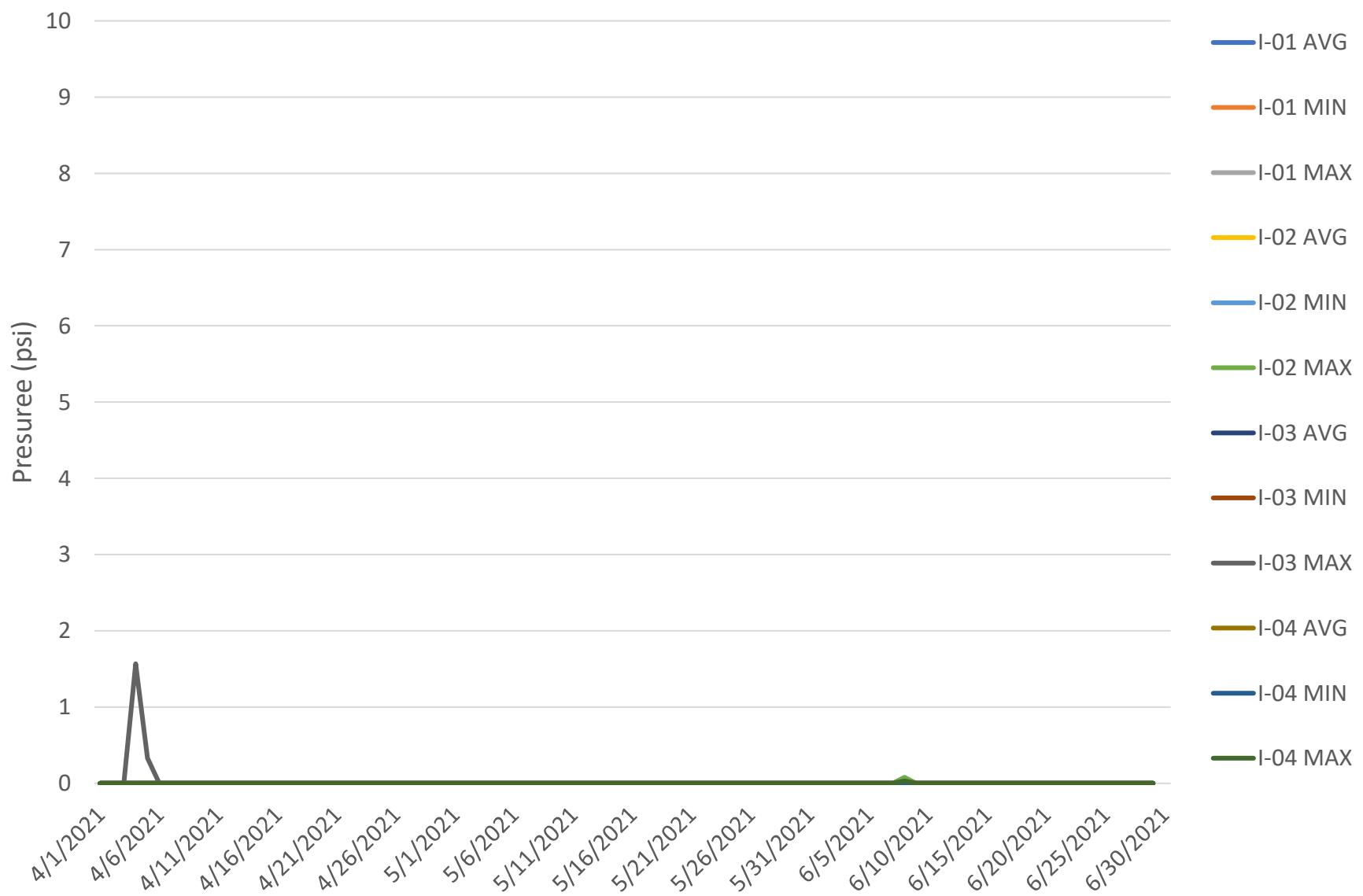
Table 6. June 2021 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
6/1/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/2/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/3/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/4/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/5/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/6/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/7/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/8/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/9/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/10/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/11/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/12/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/13/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/14/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/15/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/16/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/17/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/18/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/19/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/20/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/21/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/22/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/23/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/24/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/25/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/26/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/27/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/28/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/29/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89
6/30/2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 6

Graphical Representation of Fluid Electrical Conductivity Readings from Injection and Observations Wells

**Q2 2021 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS**
FLORENCE COPPER INC.
FLORENCE, ARIZONA

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Table 1. April 2021 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
4/1/2021	NA	4980	4900	4910	5100	3950	7450	2120	3270	1624	1501
4/2/2021	NA	4330	4300	4360	5090	3920	7610	2190	3370	1530	1550
4/3/2021	NA	4880	4830	4820	5190	4020	7670	2740	3480	1888	2010
4/4/2021	NA	4730	4710	4770	5350	4120	7790	2980	3520	1529	1948
4/5/2021	NA	5700	5610	5590	5170	4080	6440	2970	3360	1639	1602
4/6/2021	NA	4940	4880	4930	4860	4086	6190	2660	3240	2090	1537
4/7/2021	NA	5070	5180	5240	5300	4560	8170	3300	3300	2320	1831
4/8/2021	NA	4770	6030	6040	4850	4060	5110	2960	2960	2010	1550
4/9/2021	NA	4910	5890	5890	5350	4300	8100	3230	3330	2150	1855
4/10/2021	NA	4680	4910	4850	5320	4450	8270	3230	3320	2190	2010
4/11/2021	NA	4050	4140	4160	5205	5050	8080	3030	3340	1755	1938
4/12/2021	NA	4330	4350	4430	5010	4070	7910	2100	3120	1660	2030
4/13/2021	NA	4500	4370	4750	5000	4900	7880	2000	3080	1594	1888
4/14/2021	NA	3920	3880	3900	5330	5790	8170	2110	3310	1725	1926
4/15/2021	NA	3930	3880	3920	5290	4540	8140	2170	3290	1712	2130
4/16/2021	NA	4320	4290	4360	5410	4430	8270	2150	3340	1755	2050
4/17/2021	6130	5700	6020	6100	5640	5150	8390	2280	3490	1850	4360
4/18/2021	6300	5970	6120	6060	5380	6870	8210	2170	3380	1781	5210
4/19/2021	4100	4800	4110	3940	4905	5767	7707	1936	3027	1647	3470
4/20/2021	3760	3740	NA	3660	4960	5360	7450	2100	3140	1730	5840
4/21/2021	5560	5550	NA	5510	5140	5230	7416	2170	3290	1861	6330
4/22/2021	4110	3860	NA	4010	4910	5770	7400	2050	3030	1724	5610
4/23/2021	5170	4950	NA	5300	4890	6520	6060	2110	3030	1745	6090
4/24/2021	5670	5760	NA	6030	5090	6300	7630	2240	3170	1813	5700
4/25/2021	5250	5170	NA	5320	5040	6940	6620	2160	3120	1803	3880
4/26/2021	5720	5030	NA	5700	4800	6620	5800	1996	2920	1717	5550
4/27/2021	5480	5430	NA	5450	5080	6800	7390	2140	3130	1828	4380
4/28/2021	5290	5190	NA	5350	5090	6940	7690	2110	3100	1800	4210
4/29/2021	5160	5150	4990	5080	5090	6380	7420	2180	3040	1870	4330
4/30/2021	4650	4620	4450	NA	5050	7000	7800	2310	3140	1888	3670

Notes:

All measurements in microsemens per centimeter ($\mu\text{s}/\text{cm}$)

NA or NM = Not measured or otherwise not available

4/1 - 4/16/2021: I-01 redevelopment

4/20 - 4/28/2021: I-03 redevelopment

4/30/2021: I-04 redevelopment

Q2 2021 DAILY FLUID ELECTRICAL CONDUCTIVITY

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INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. May 2021 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
5/1/2021	5150	4710	5120	NA	4860	6710	7610	2130	3020	1746	1780
5/2/2021	5370	5360	5440	NA	4790	6590	7530	2030	3010	1715	1623
5/3/2021	3600	3680	3400	NA	5100	6980	7870	2110	3210	1807	1765
5/4/2021	5400	5450	5550	NA	4860	6800	5720	2070	2950	1749	1622
5/5/2021	4170	4550	4420	NA	4970	6460	7550	2250	2990	2180	1496
5/6/2021	4470	4480	4520	NA	4960	6790	7660	2250	2990	2270	1561
5/7/2021	3400	3980	3400	NA	4800	6190	7440	2190	2870	2240	1552
5/8/2021	4350	4190	4280	6550	4720	6380	7650	2340	2940	2310	7290
5/9/2021	4111	3920	3381	3860	4730	6290	7260	2380	2880	2350	7090
5/10/2021	4900	4740	4810	4980	4700	4610	7620	2780	2880	2310	6720
5/11/2021	3960	3790	3720	3810	4710	4610	7120	2280	2830	2120	2290
5/12/2021	5290	4470	4980	5320	4700	4590	7130	1831	2820	1997	1553
5/13/2021	3150	3400	3320	3130	4800	4830	7622	1909	2840	1866	1588
5/14/2021	3150	3400	3320	3130	4660	4390	7010	1825	2770	1626	1614
5/15/2021	4600	4510	4540	4530	4720	4370	6820	1906	2810	1632	1598
5/16/2021	5300	5130	4880	5180	4740	4650	6170	1810	2770	1620	1520
5/17/2021	4790	4690	4550	4790	4810	4820	7420	1860	2840	1506	1527
5/18/2021	4450	4510	4440	4430	4900	4240	6710	1821	2870	1520	1520
5/19/2021	4600	4430	4490	4740	5250	4680	7520	2110	3080	1669	5990
5/20/2021	4930	4680	4740	4690	NA	5036	8166	NA	NA	NA	NA
5/21/2021	3826	3757	3768	3766	5620	5210	7262	6630	7440	6960	4450
5/22/2021	3358	3590	3297	3329	5280	4720	7520	3850	3210	1710	6470
5/23/2021	4356	3679	4273	4149	4890	4350	6860	2450	2910	1581	6010
5/24/2021	4235	4001	4237	4233	5610	4960	7535	5580	7100	6870	4400
5/25/2021	4052	3950	3938	3942	6180	4990	7194	6600	3060	2940	1629
5/26/2021	4540	4620	4610	4640	4810	4866	6850	3710	2950	1680	5740
5/27/2021	4816	4522	4830	4757	4800	4330	NA	4660	3000	1747	6010
5/28/2021	4374	4464	4513	4506	4780	4380	NA	5480	3090	1763	5660
5/29/2021	4280	4360	4100	4250	4700	4250	6847	4440	3070	1762	5610
5/30/2021	4390	4520	4710	4690	4650	4230	6890	4570	3070	1815	5550
5/31/2021	4760	4830	4770	4700	4670	4180	6720	5440	3060	1932	5600

Notes:

All measurements in microsemens per centimeter (uS/cm)

NA or NM = Not measured or otherwise not available

5/1 - 5/7/2021: I-04 redevelopment

5/8/2021: I-04 value is outlier attributed to operator error

5/20/2021: Observation wells sampling conducted

5/27 - 5/28/2021: O-03 redevelopment

**Q2 2021 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS**
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Page 3 of 3

Table 3. June 2021 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
6/1/2021	4149	4140	4288	4190	4720	4220	6820	6120	3060	1956	5610
6/2/2021	4321	4103	4411	4326	4840	4420	7130	6410	3300	2030	5910
6/3/2021	4472	4317	5238	4556	5040	4700	7460	6570	3390	2040	6240
6/4/2021	5422	5202	5375	5312	4740	4630	7290	3700	2920	1930	5830
6/5/2021	4570	4608	4602	4451	4660	4320	6900	1849	2870	1851	5470
6/6/2021	4631	4586	4474	4638	4720	4160	6680	1772	2820	1940	5400
6/7/2021	4355	4470	4383	4403	4940	6490	3950	1793	2890	2050	5540
6/8/2021	4362	4313	4344	4347	5100	4380	6920	1840	2960	2110	5380
6/9/2021	4248	4866	4249	4306	5000	4360	6866	1843	2970	2090	5350
6/10/2021	4646	4596	4651	4596	4810	4430	6450	2010	2810	2120	5460
6/11/2021	4356	4460	4302	4395	4830	4220	6680	1825	2690	2040	5550
6/12/2021	4330	4397	4326	4338	4780	4410	6900	1876	2730	1744	5620
6/13/2021	5371	5004	5285	5322	4720	4600	5560	1886	NA	1721	5660
6/14/2021	4767	4841	4727	4851	4720	4190	6510	1841	2760	1549	5300
6/15/2021	4924	4777	4940	4929	4630	4090	6550	1836	2730	1516	5330
6/16/2021	5715	5642	5707	5674	4600	4340	5810	1885	2810	1680	5320
6/17/2021	4338	4662	4429	4328	4900	4330	7120	1901	2820	1726	5310
6/18/2021	4728	4564	4534	4698	4680	4030	6500	2240	2810	1532	5770
6/19/2021	4105	4160	4188	4089	4800	4420	7250	2260	2790	1619	5700
6/20/2021	5214	4503	4359	4360	4710	4100	6950	2260	2890	1524	6190
6/21/2021	4639	4622	4535	4587	4580	4050	6900	2200	2840	1506	6110
6/22/2021	4744	4668	4627	4728	4650	4000	6700	2170	2830	1521	5740
6/23/2021	4605	4534	4540	4530	4660	4060	6750	1946	2750	1516	5270
6/24/2021	4292	4222	4285	4226	4700	4060	6770	1949	2770	1545	5220
6/25/2021	4079	3971	3996	4001	4750	4280	7170	1882	2800	1503	5100
6/26/2021	3788	3864	3848	3931	4650	4060	6550	1823	2740	1510	5012
6/27/2021	4373	4387	4321	4334	4650	4320	6790	1783	2710	1489	5050
6/28/2021	4235	4236	4159	4198	4650	3930	6510	1831	2810	1516	5240
6/29/2021	4211	4318	4352	4397	4610	3860	6460	1832	2810	1948	4970
6/30/2021	4026	2004	3820	3997	4580	3810	6100	1886	2870	2270	4670

Notes:

All measurements in microsemens per centimeter (uS/cm)

NA or NM = Not measured or otherwise not available

6/13/2021: O-05 pump down

6/30/2021: I-02 value is outlier attributed to operator error.

Figure 1. Daily Fluid Electrical Conductivity in Injection & Observation Wells

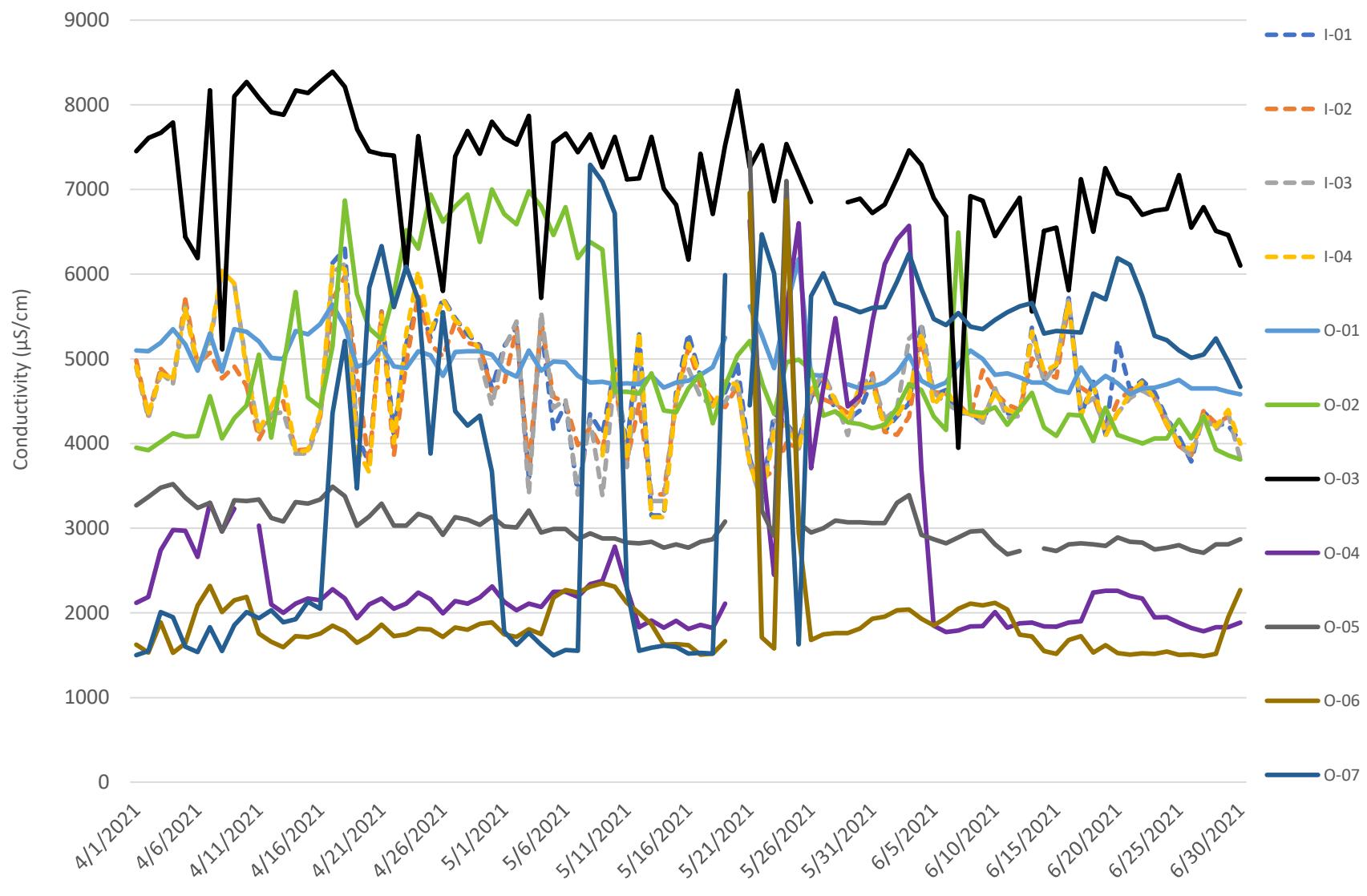
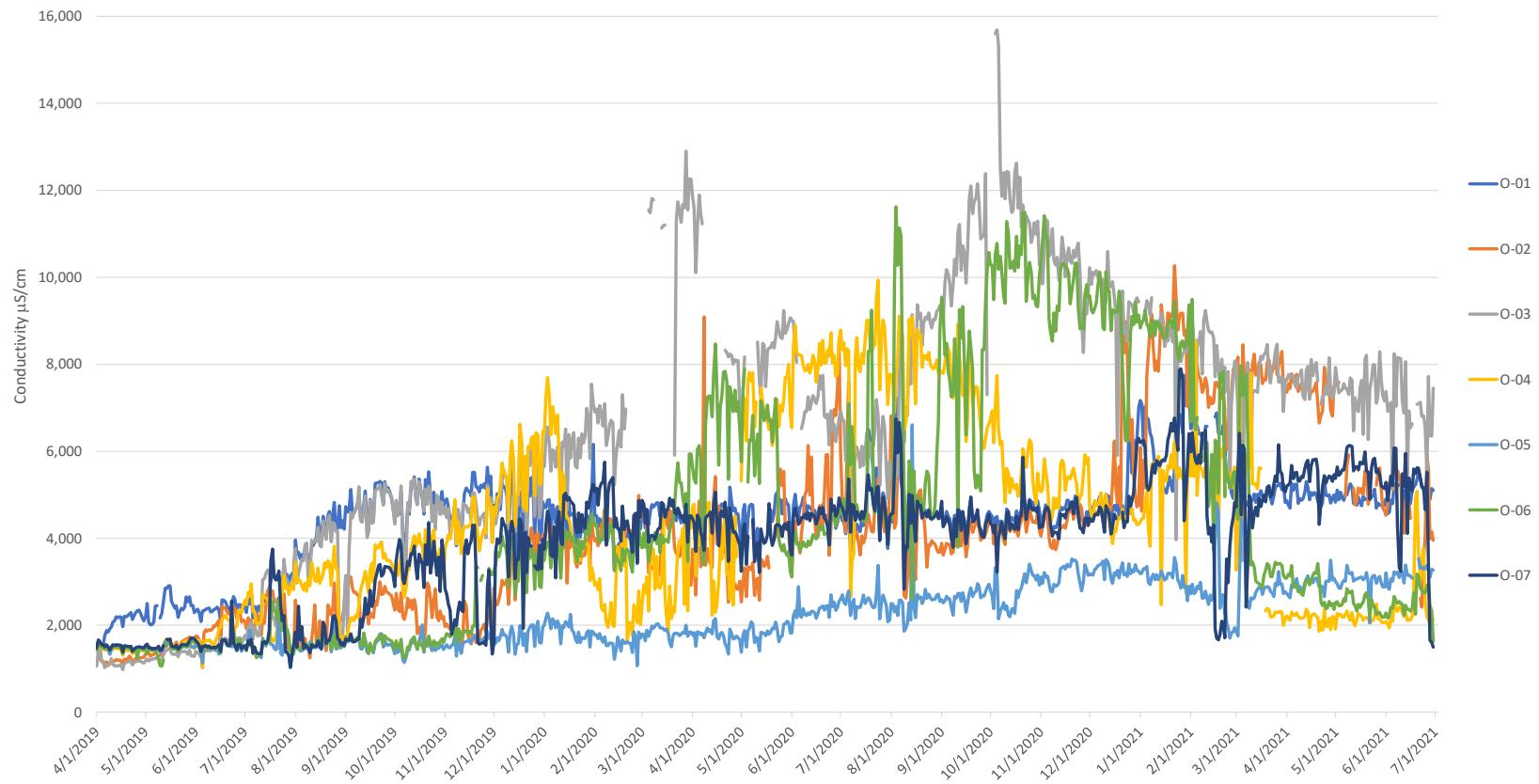


Figure 2. Daily Fluid in Observation Wells Over Past 9 Calendar Quarters



ATTACHMENT 7

Time versus Concentration Plots of Select Groundwater Parameters

M1-GL QUARTERLY CONCENTRATION GRAPHS

Figure 1a. Sulfate

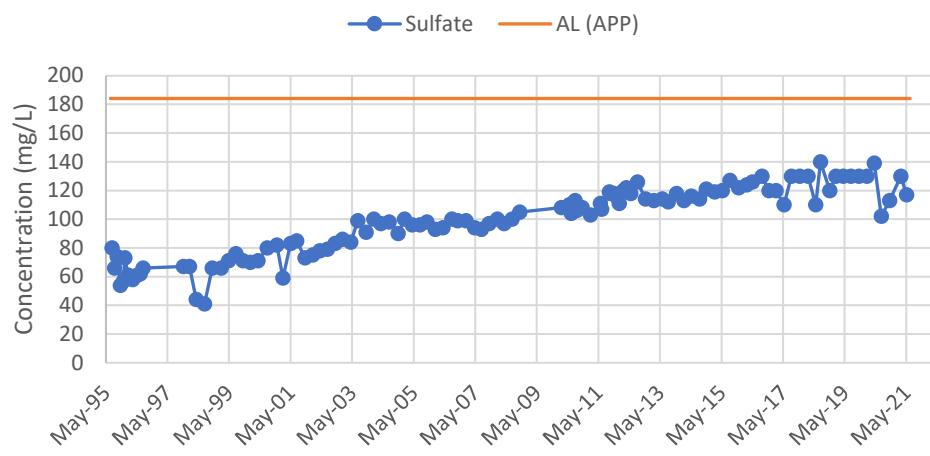


Figure 1b. Total Dissolved Solids

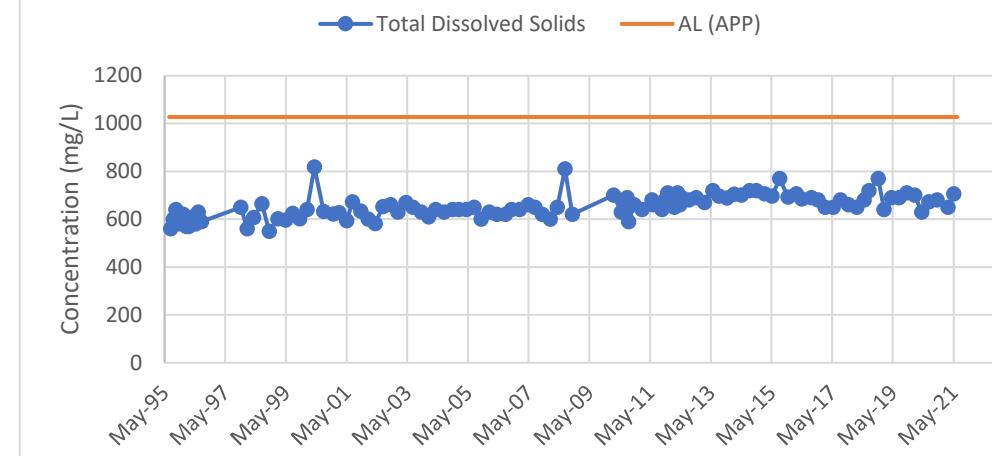


Figure 1c. Field pH

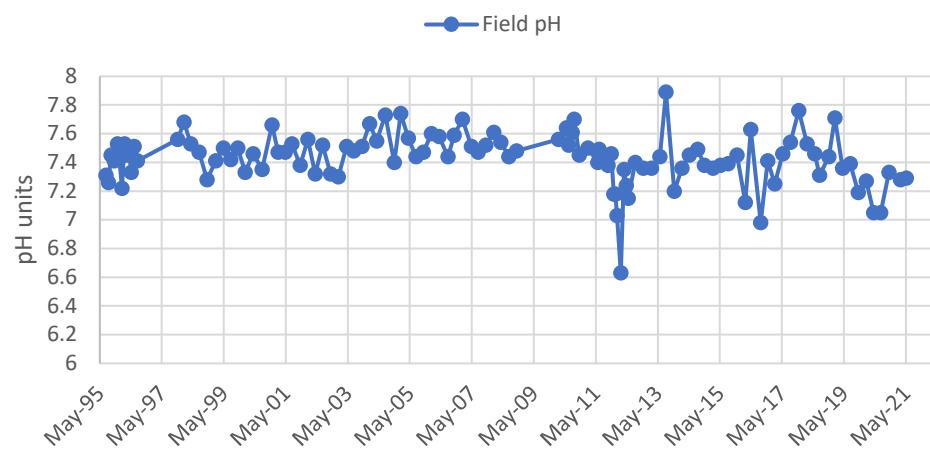
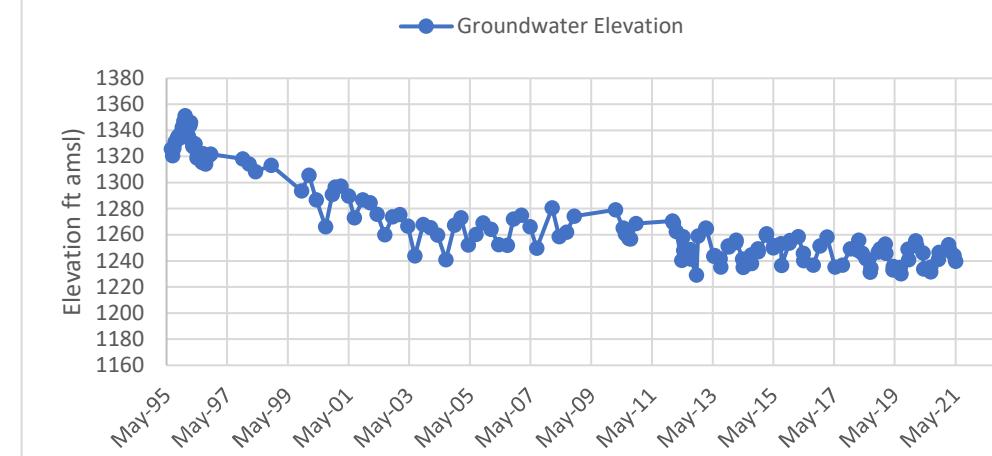


Figure 1d. Groundwater Elevation

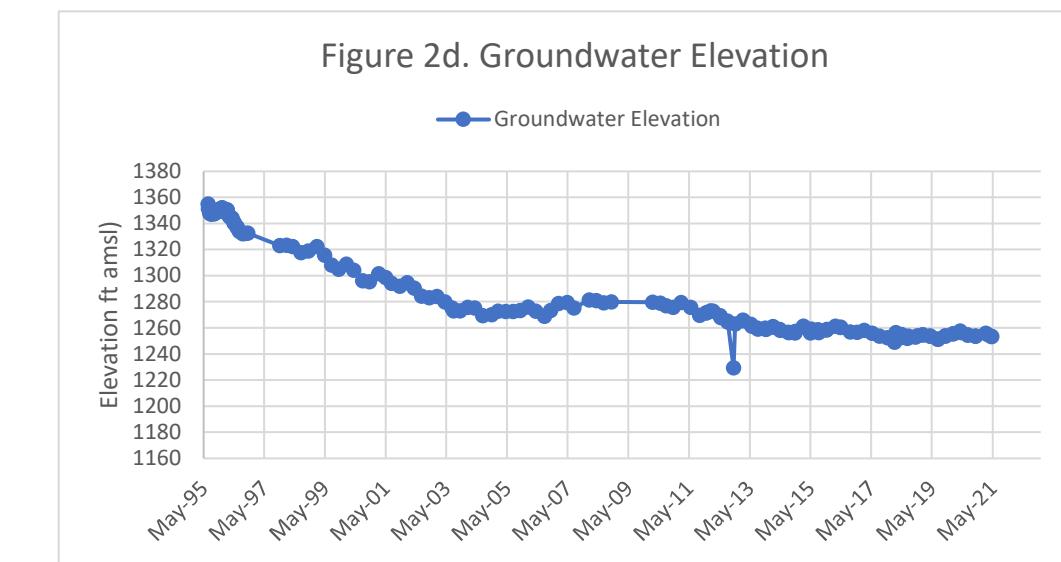
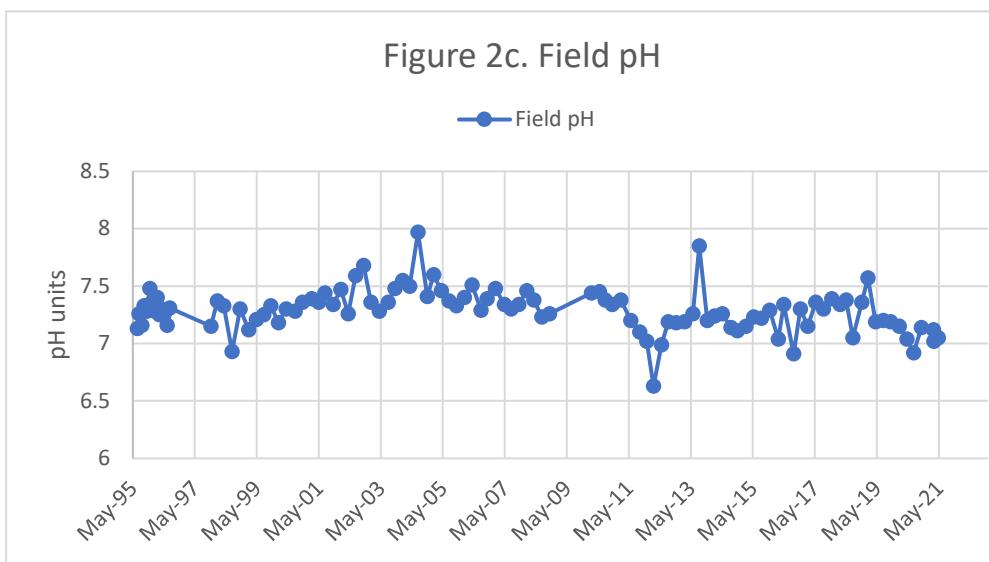
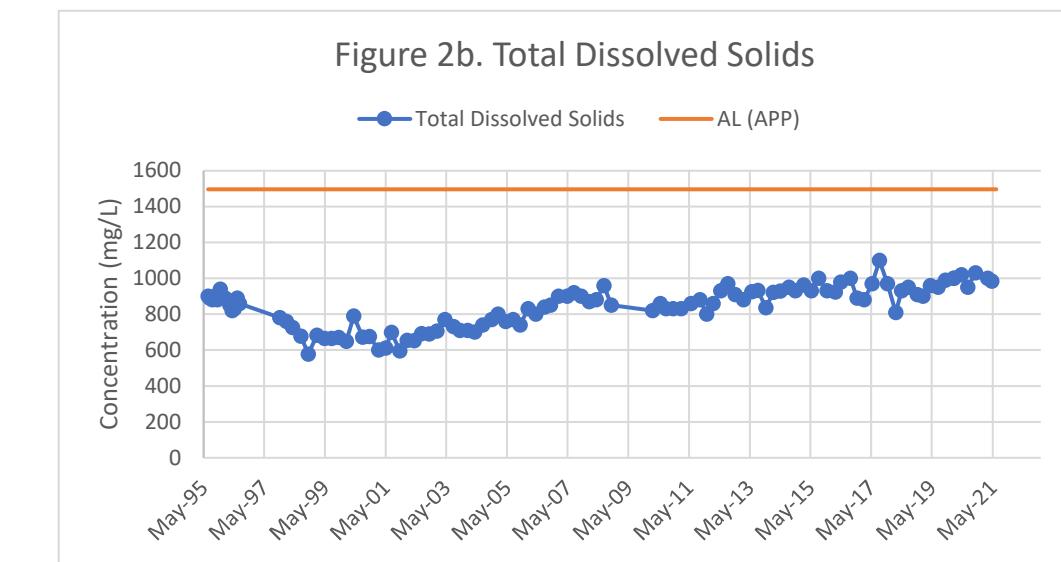
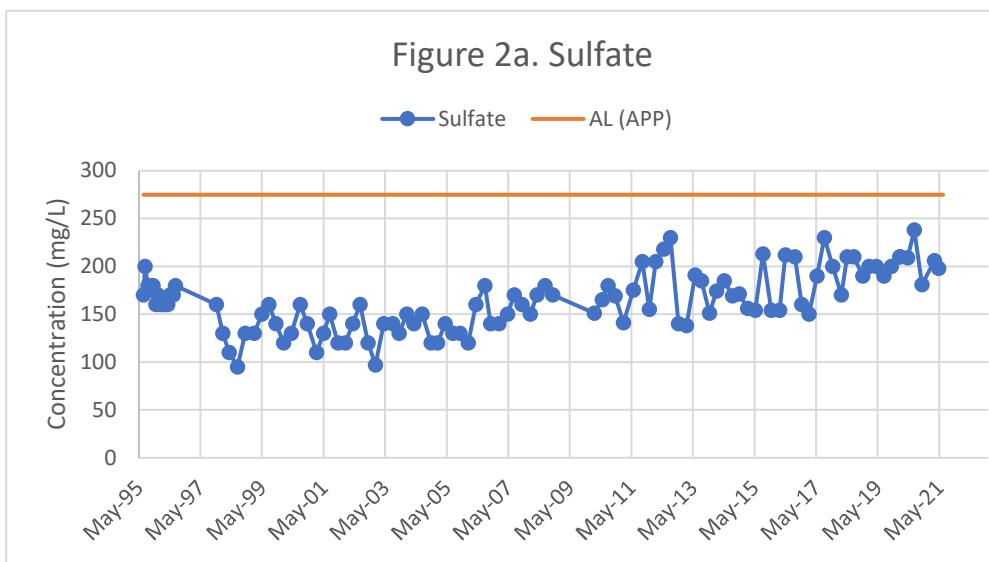


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M2-GU QUARTERLY CONCENTRATION GRAPHS

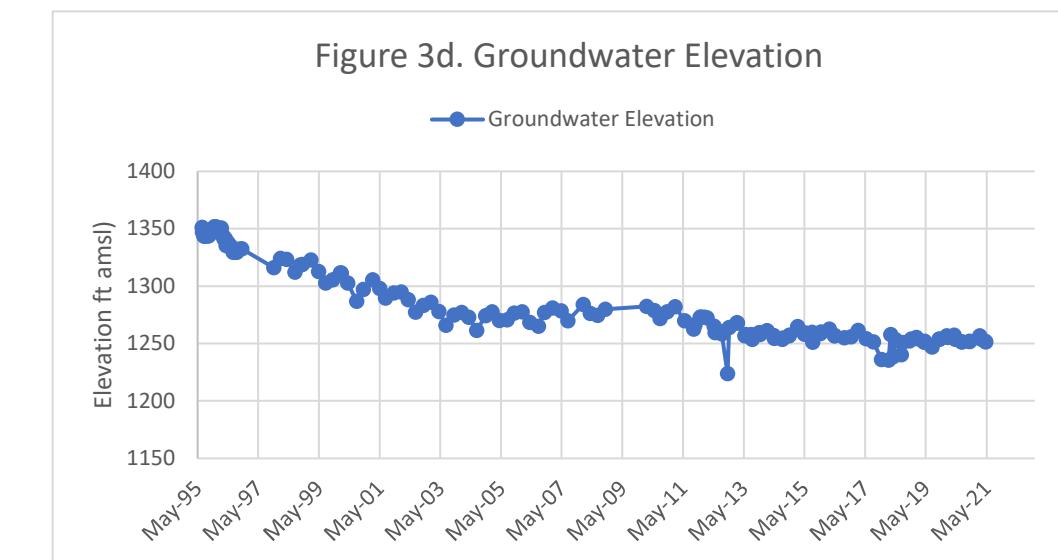
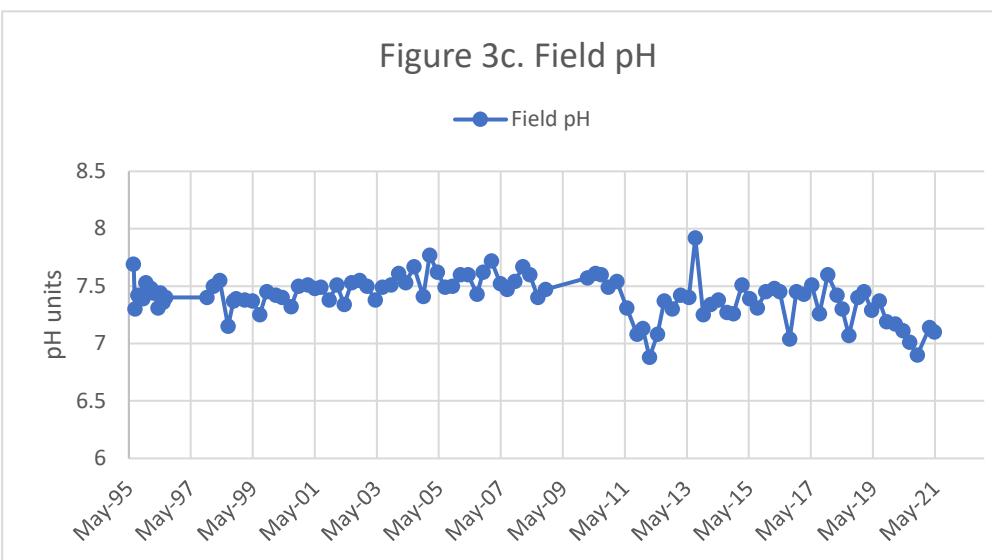
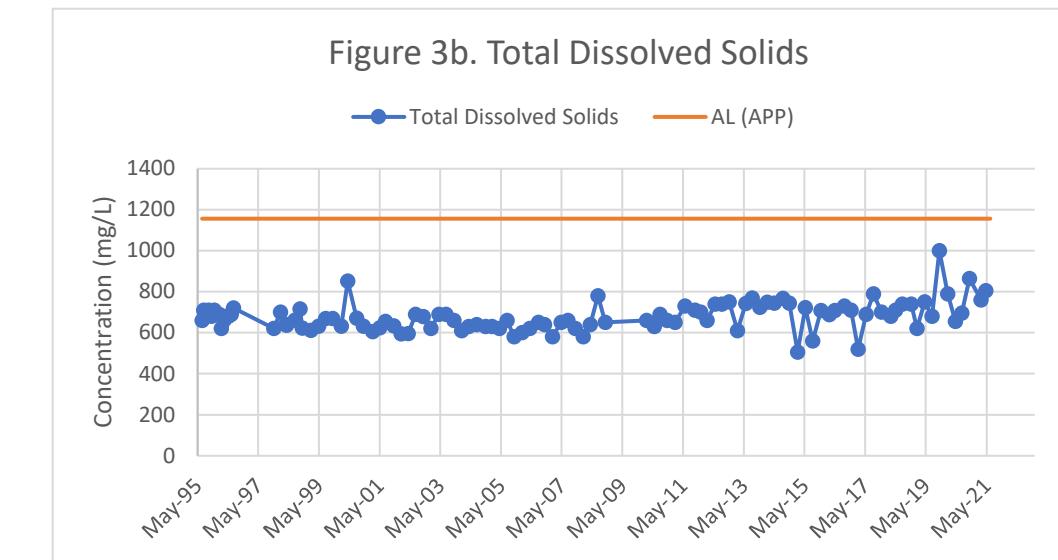
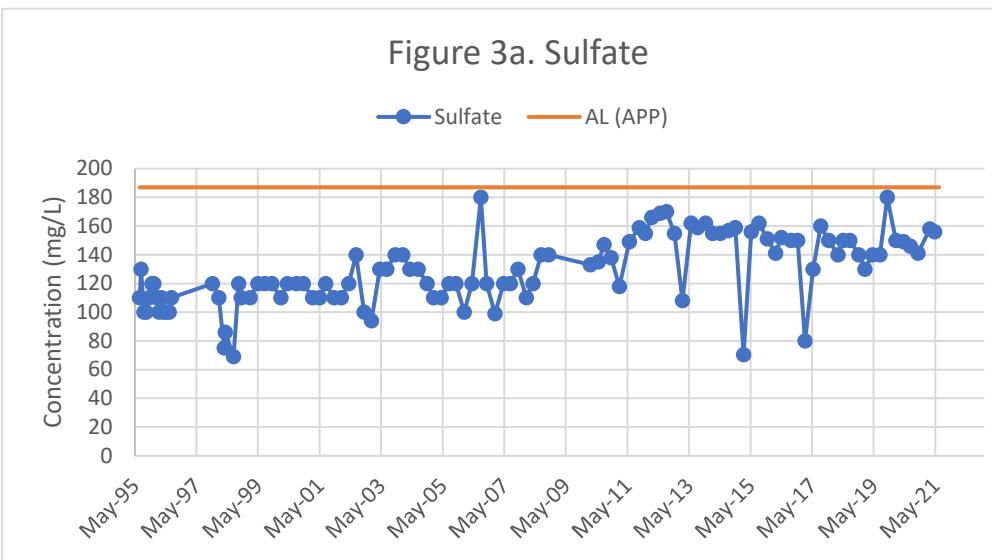


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M3-GL QUARTERLY CONCENTRATION GRAPHS

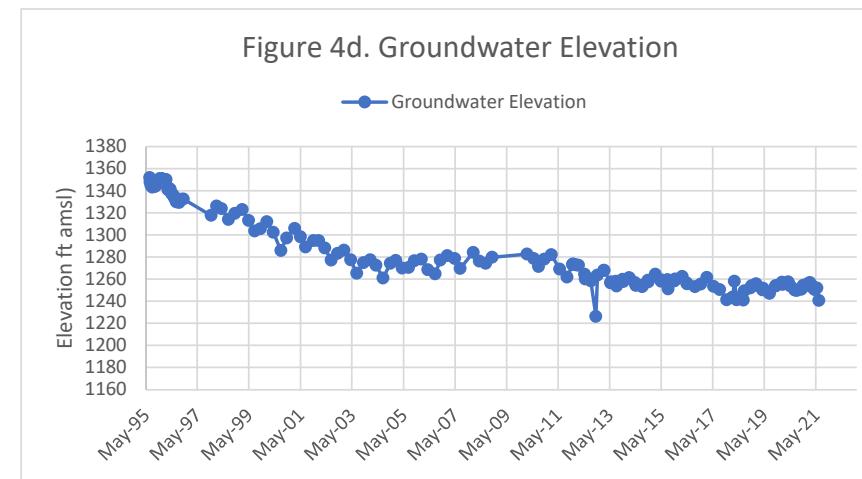
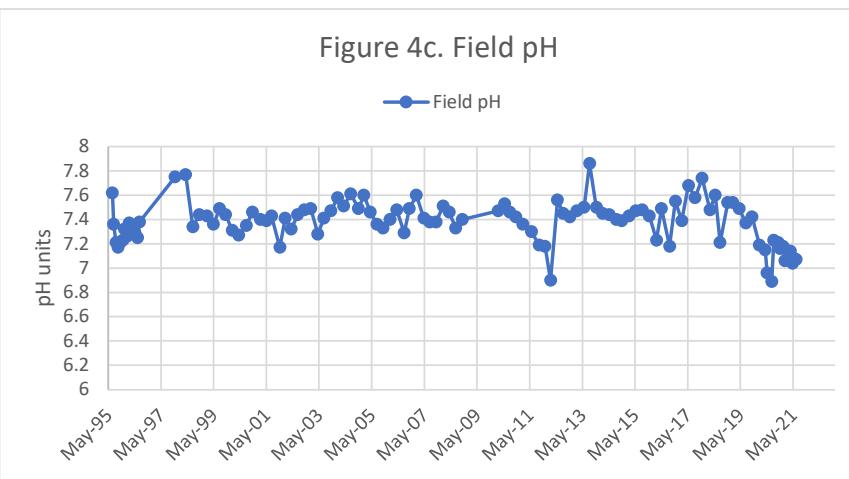
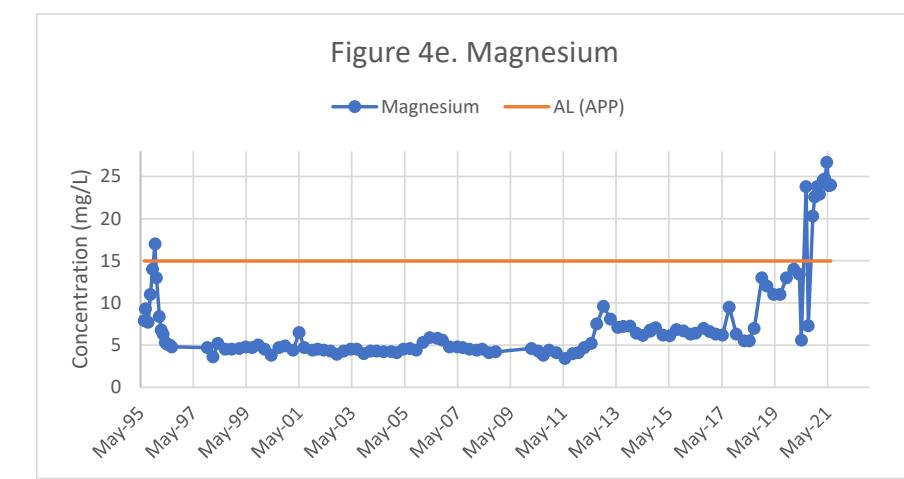
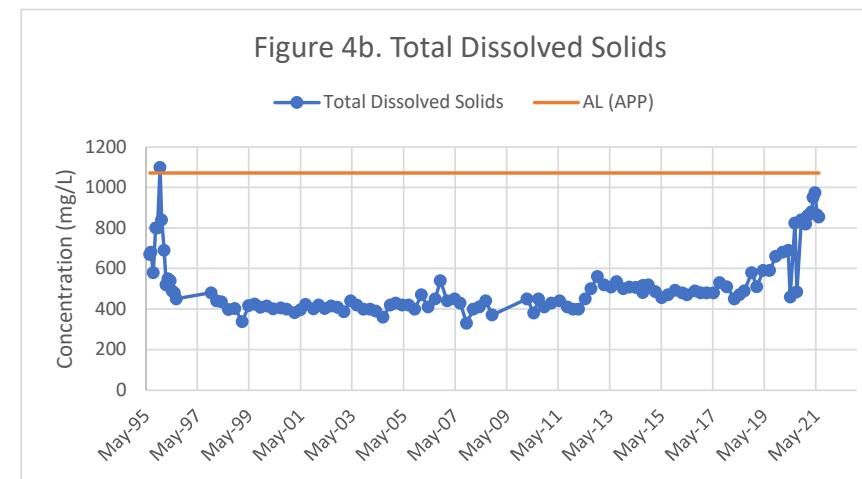
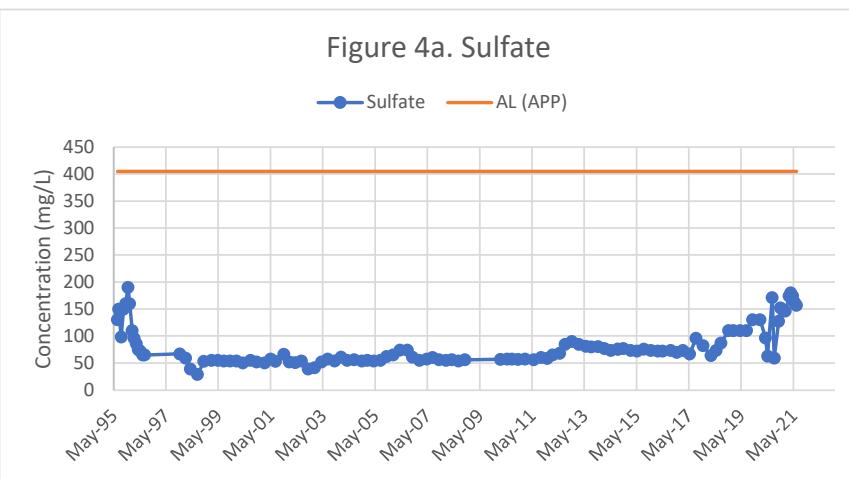


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M4-O QUARTERLY CONCENTRATION GRAPHS

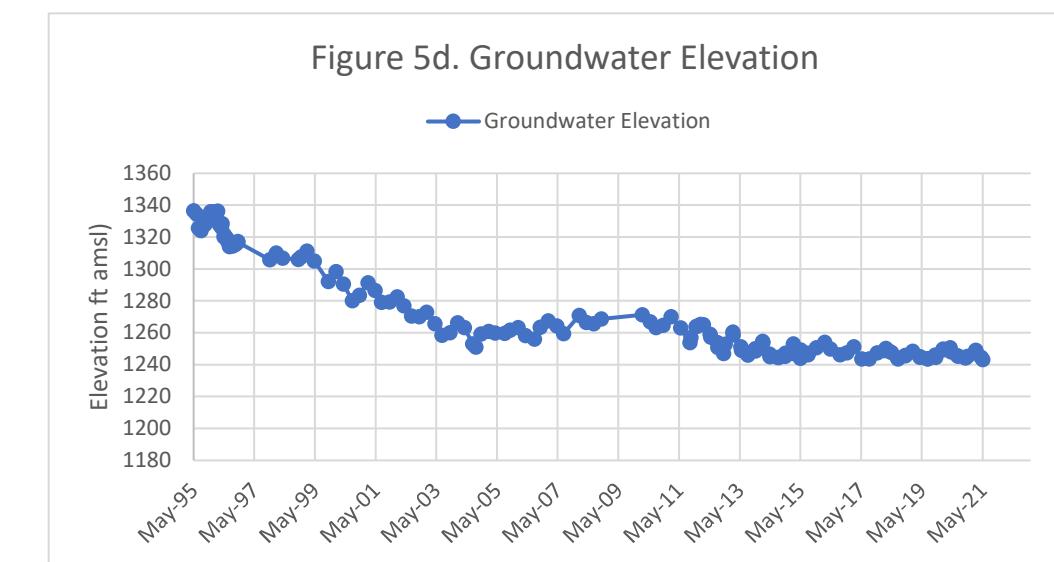
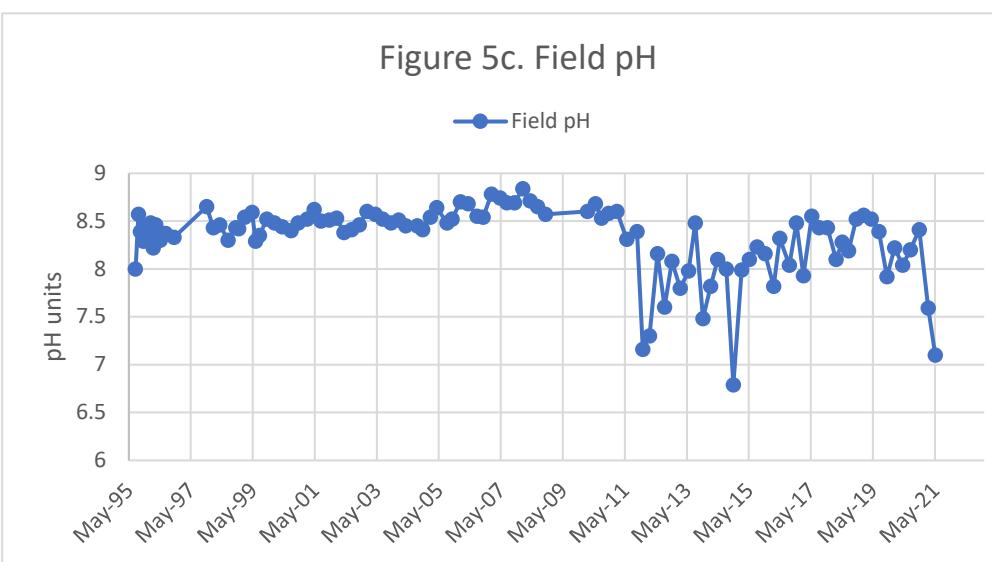
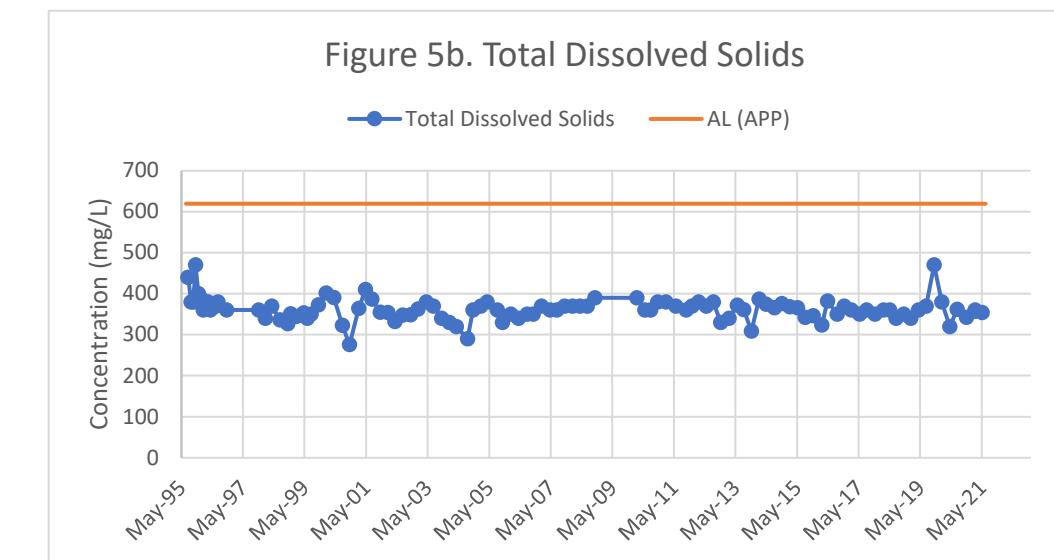
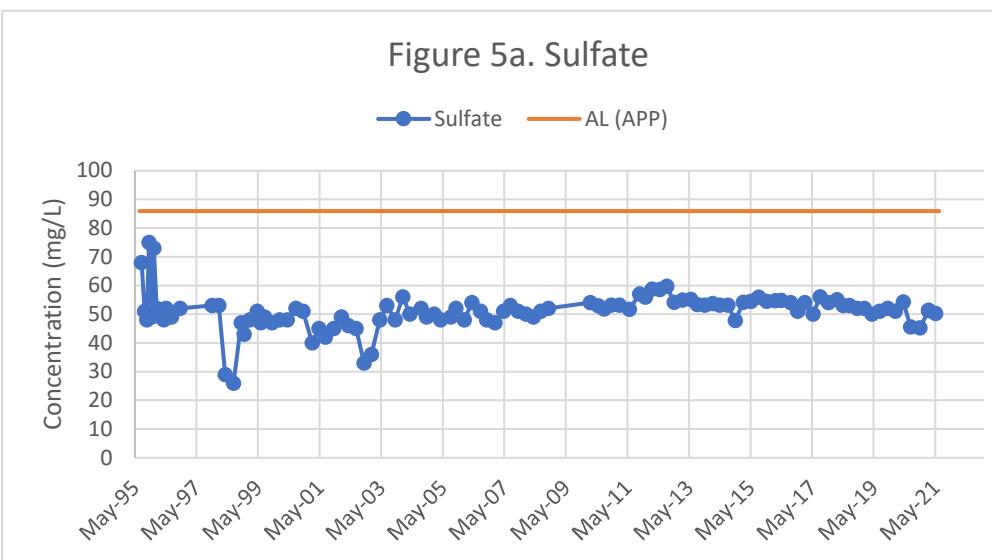


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M6-GU QUARTERLY CONCENTRATION GRAPHS

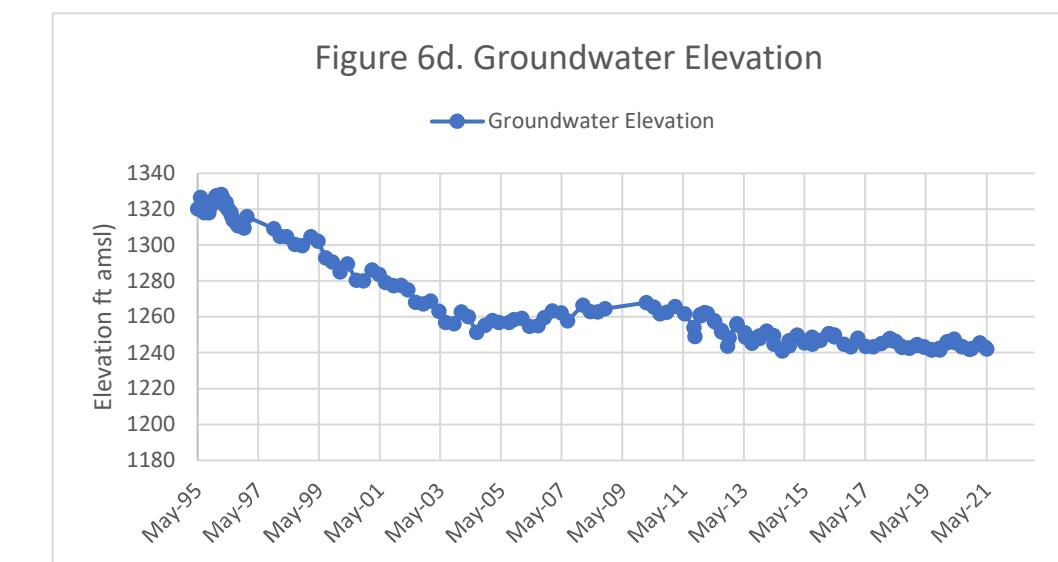
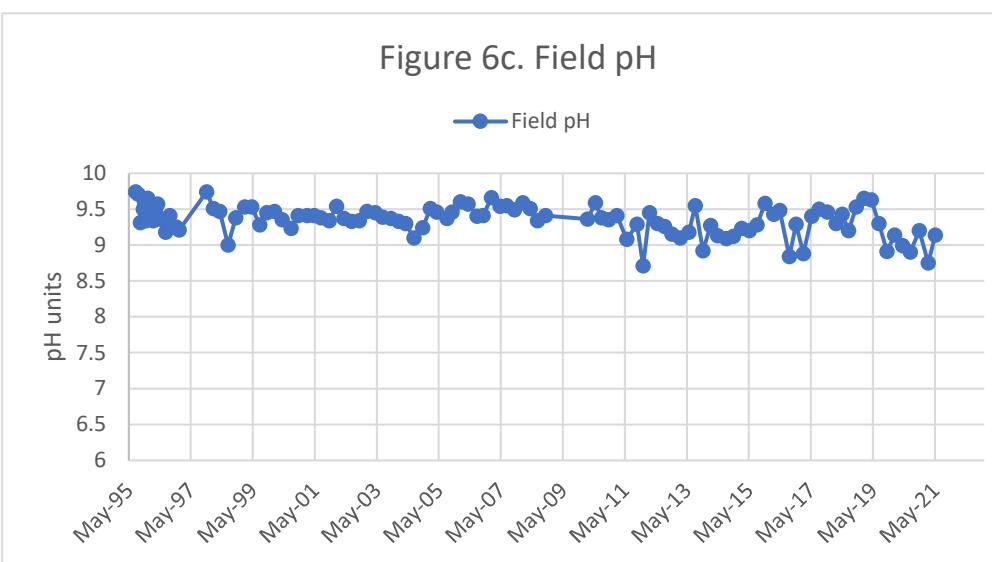
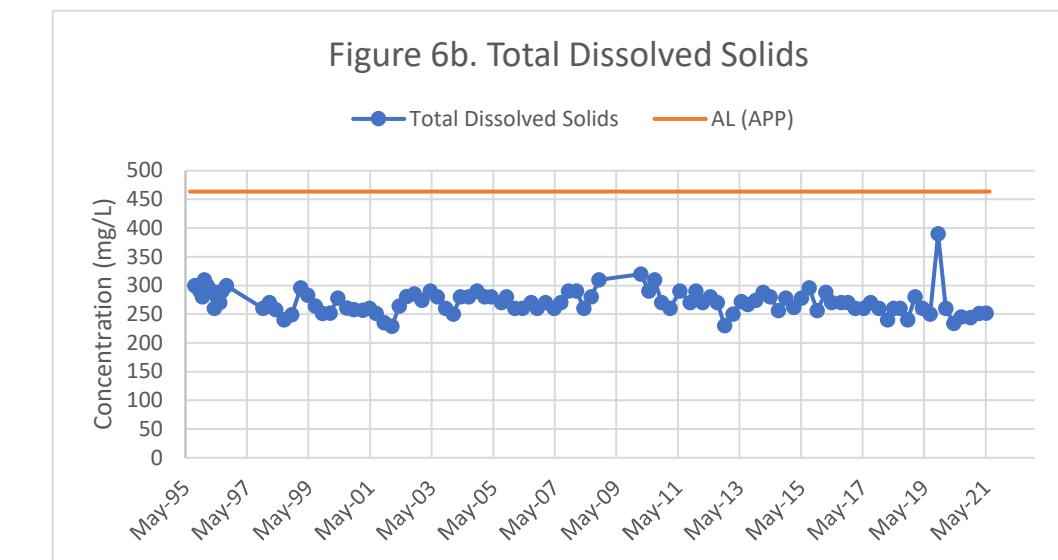
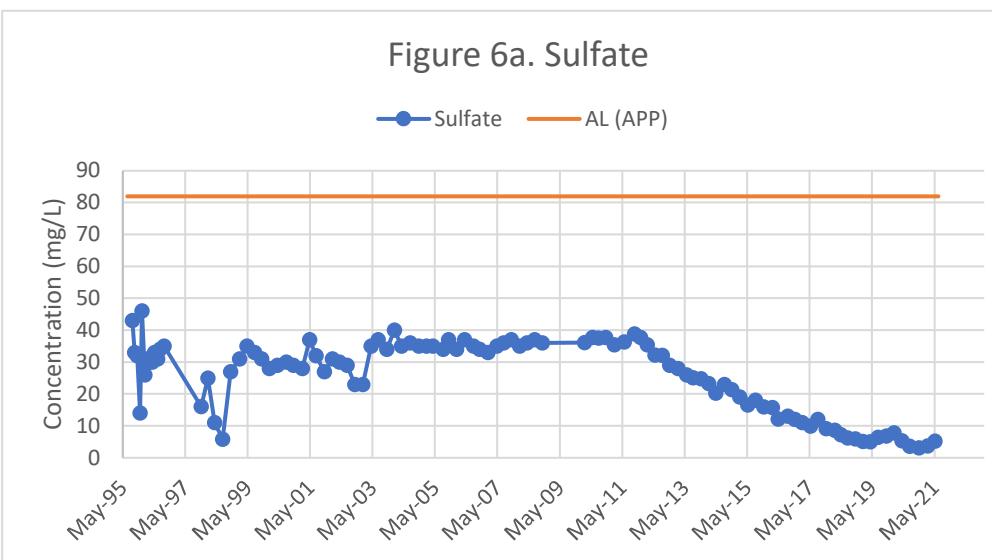


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M6-GU QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M8-O QUARTERLY CONCENTRATION GRAPHS

Figure 7a. Sulfate

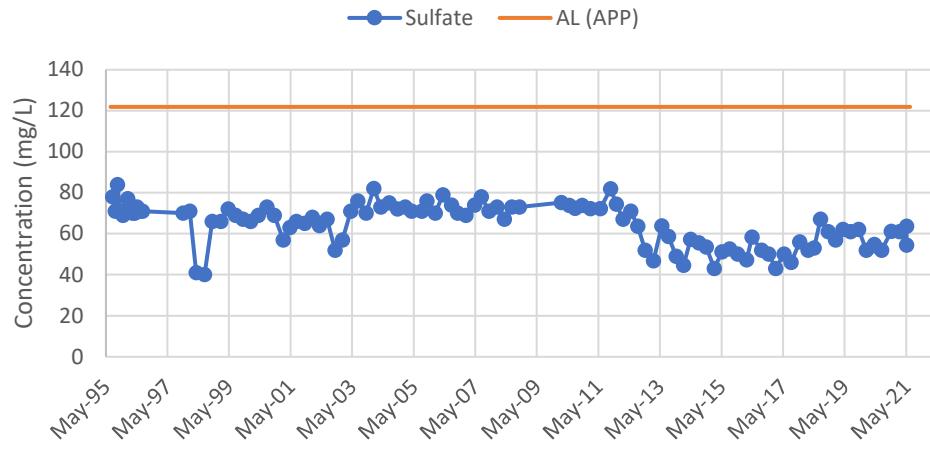


Figure 7b. Total Dissolved Solids

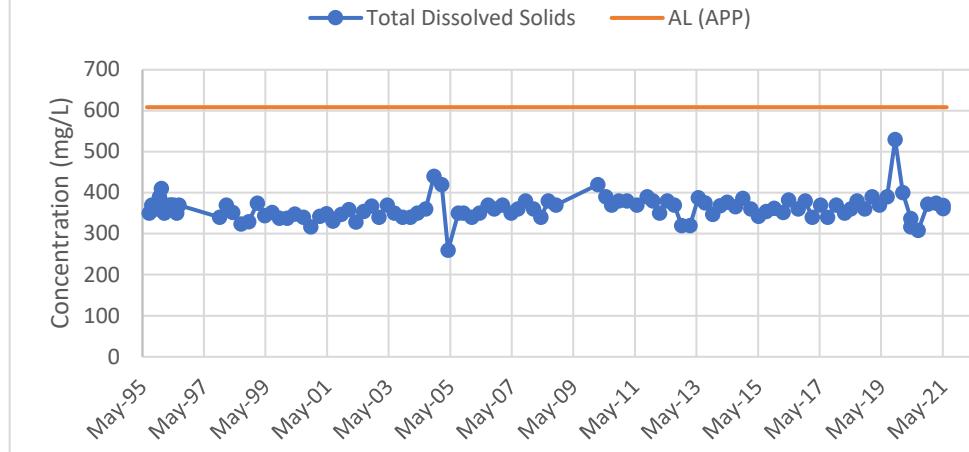


Figure 7c. Field pH

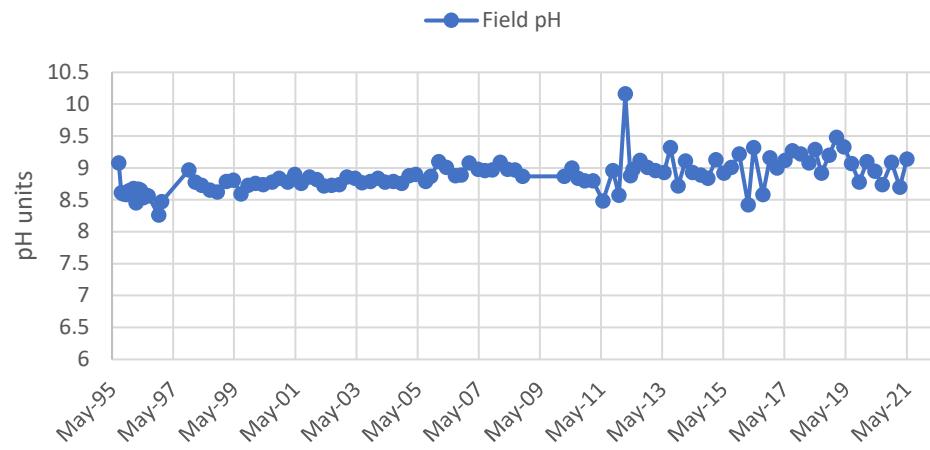
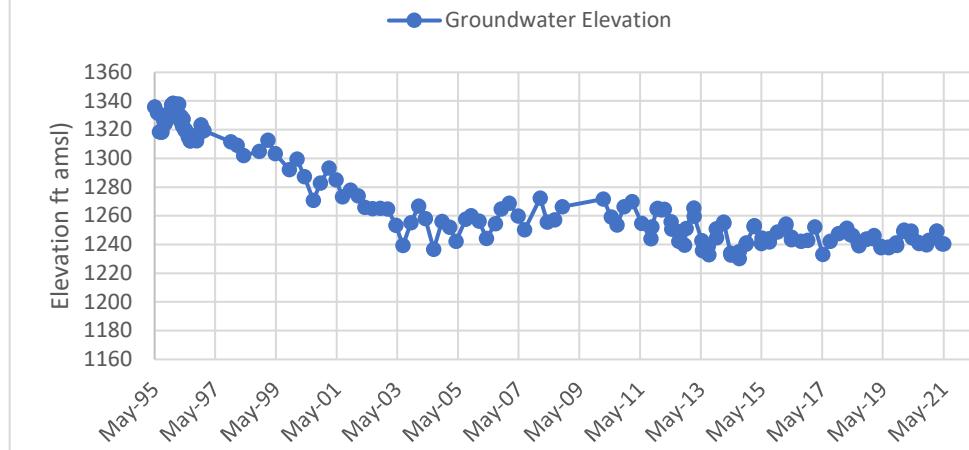


Figure 7d. Groundwater Elevation

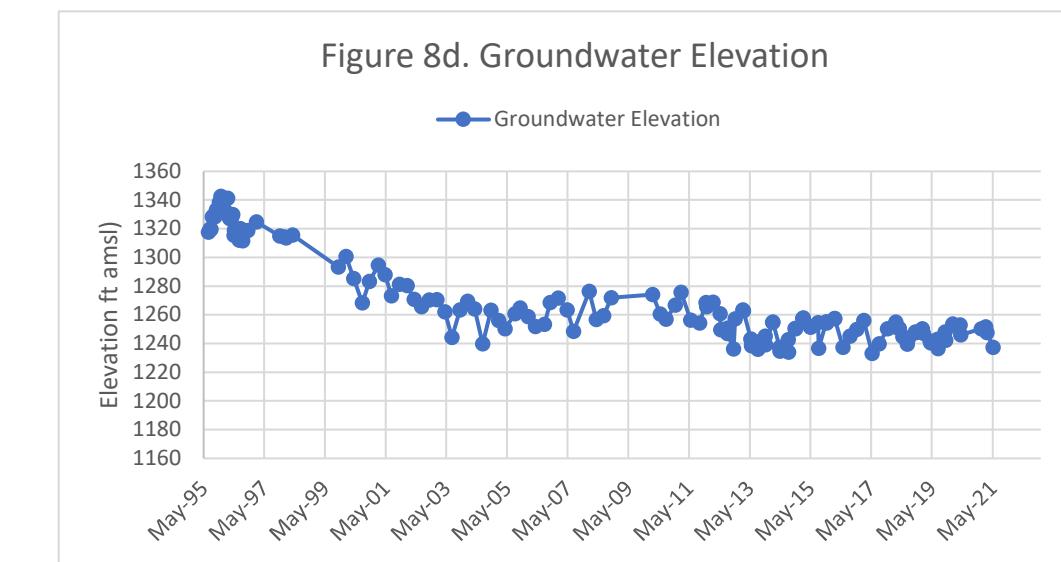
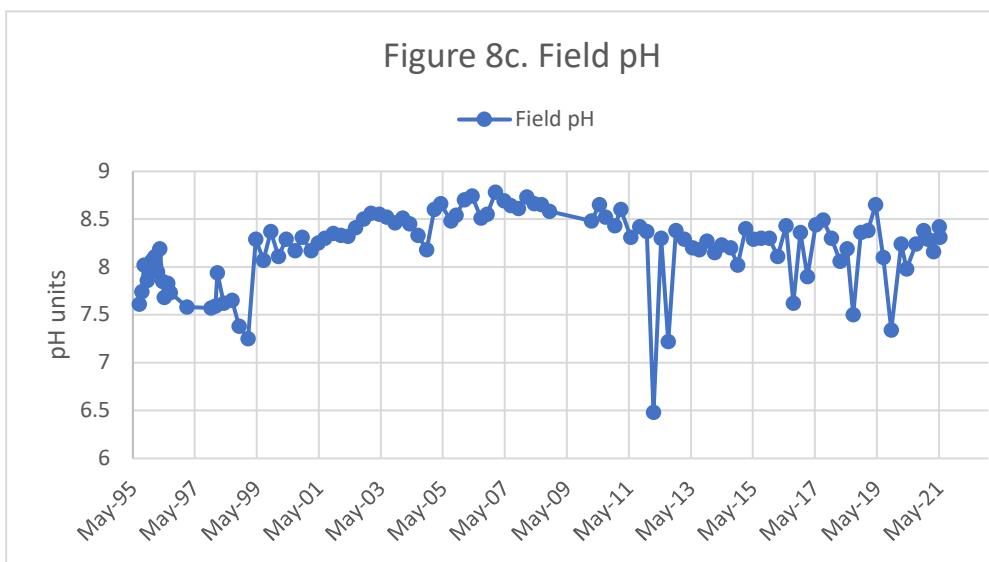
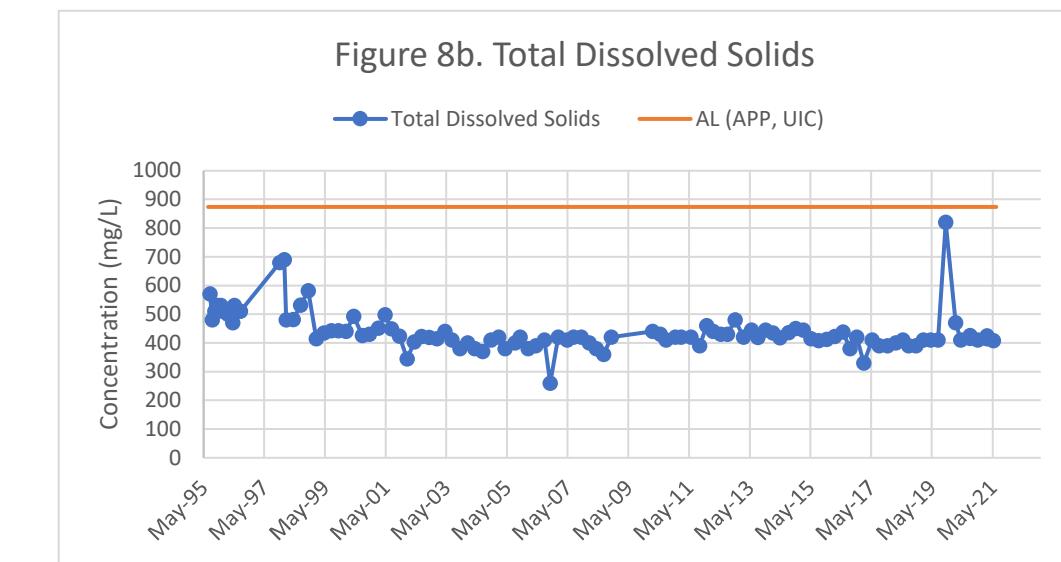
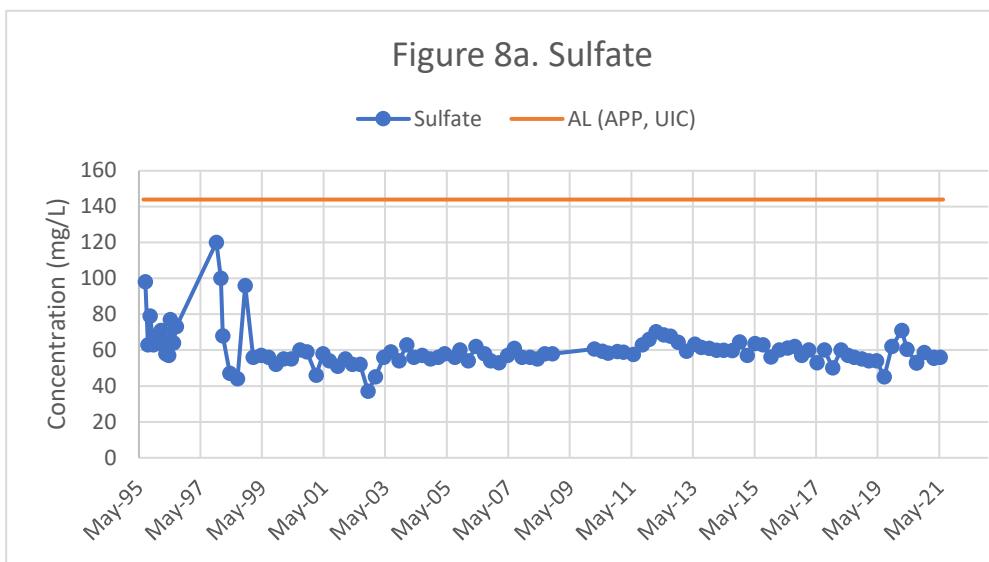


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M14-GL QUARTERLY CONCENTRATION GRAPHS



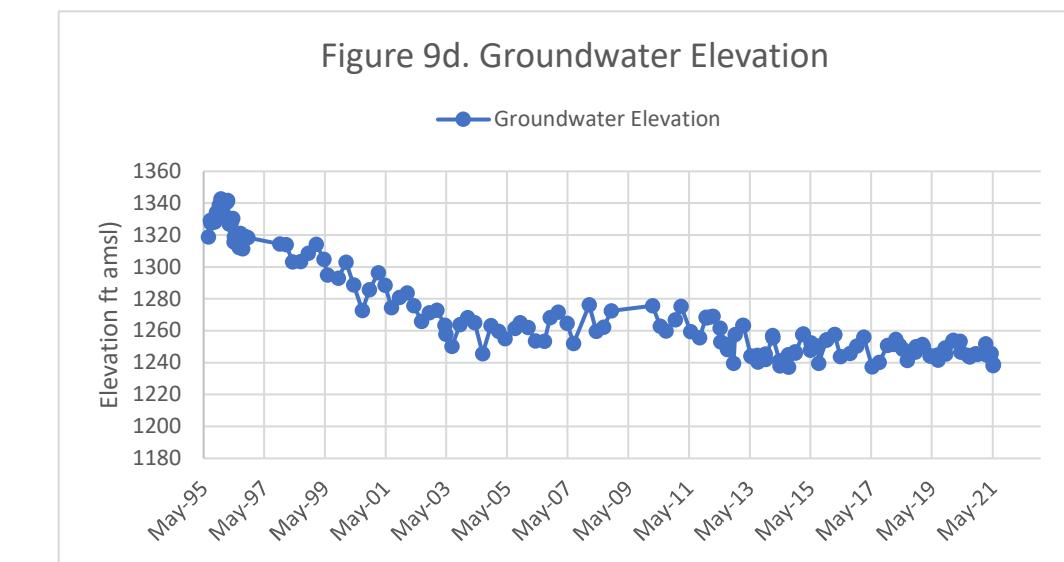
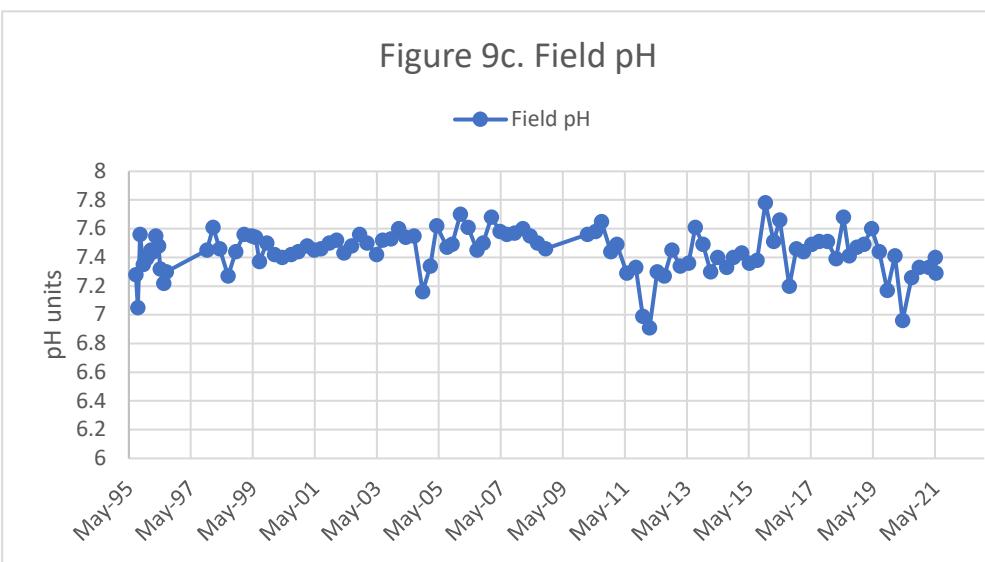
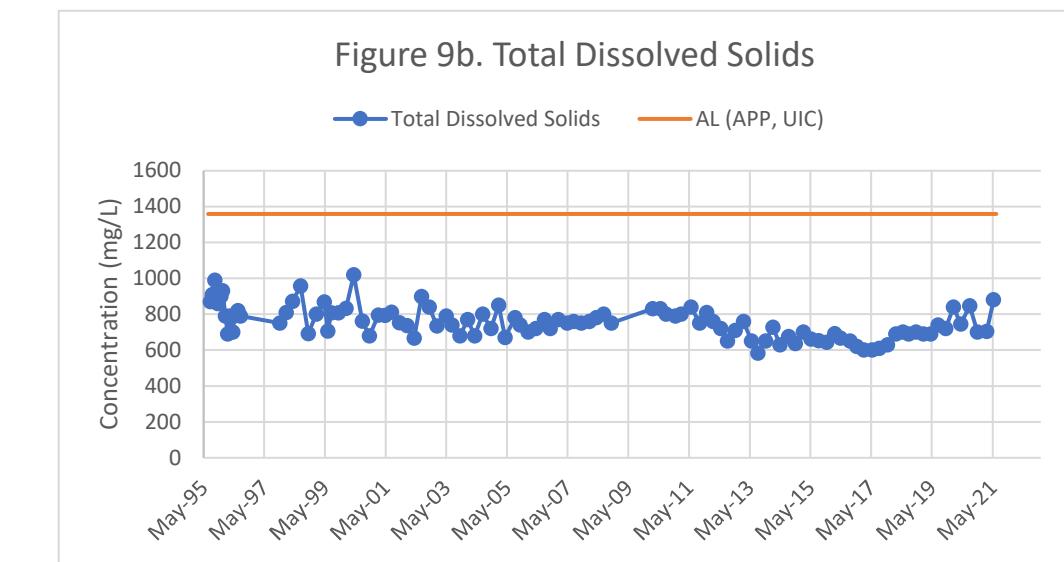
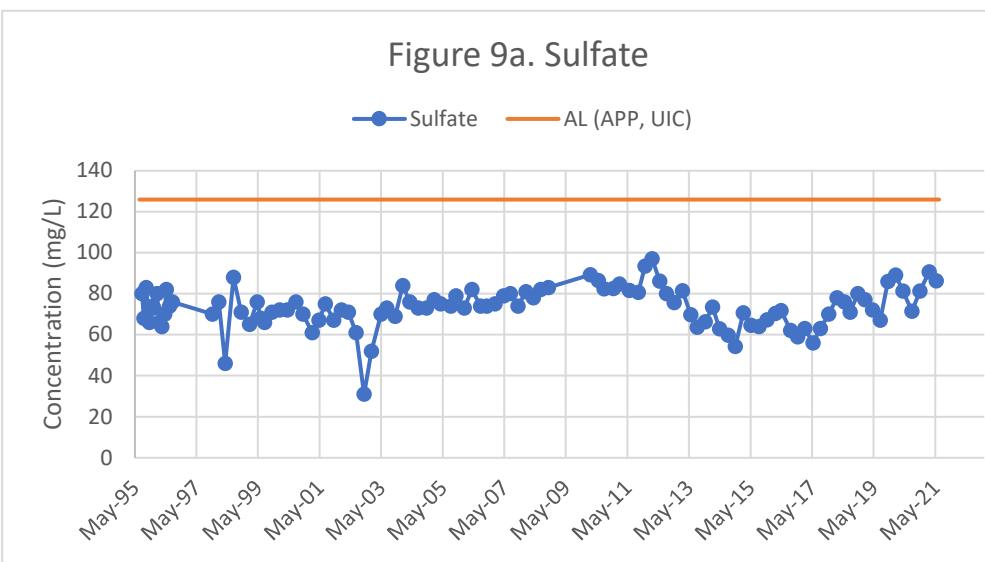
Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M15-GU QUARTERLY CONCENTRATION GRAPHS



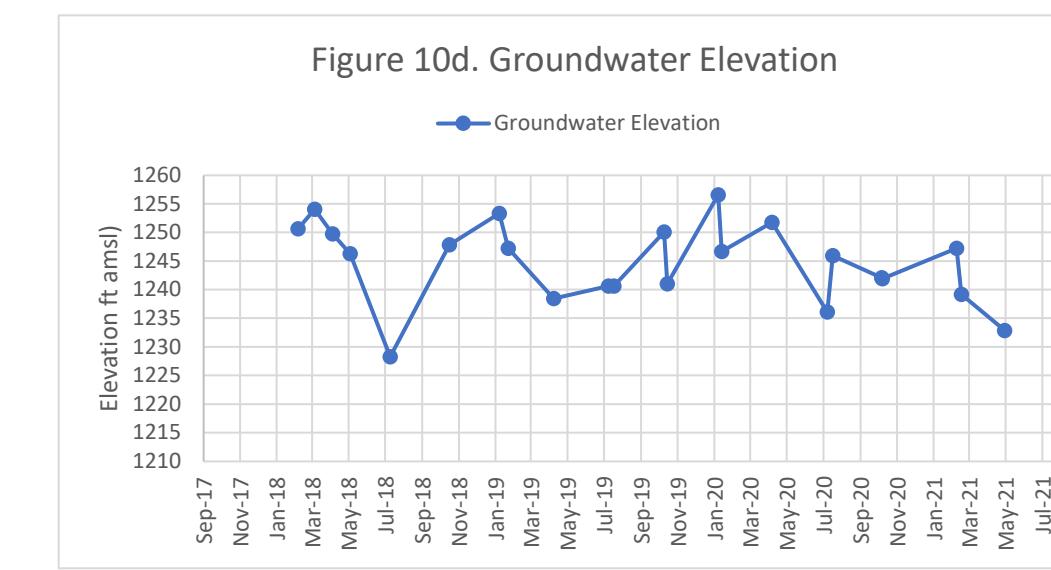
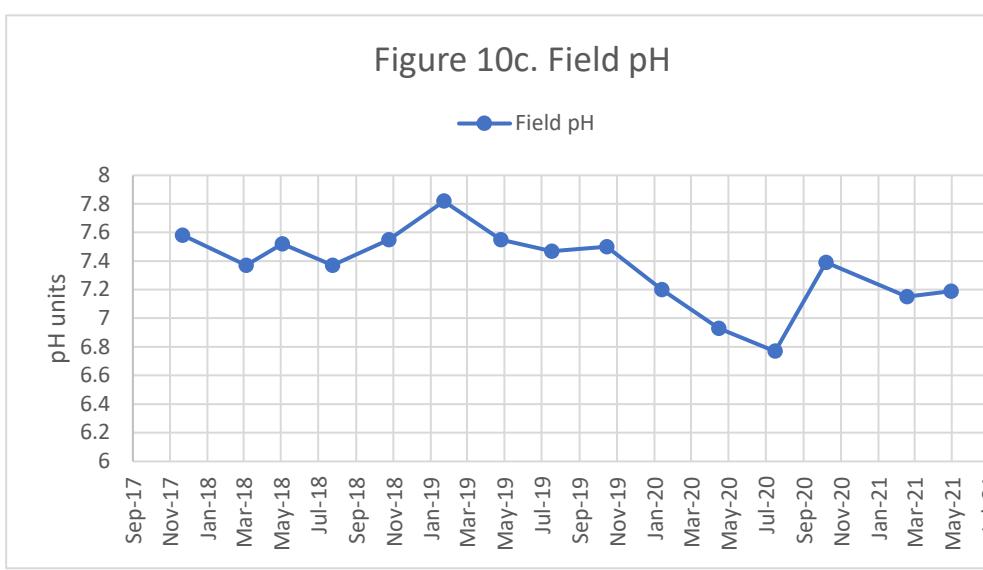
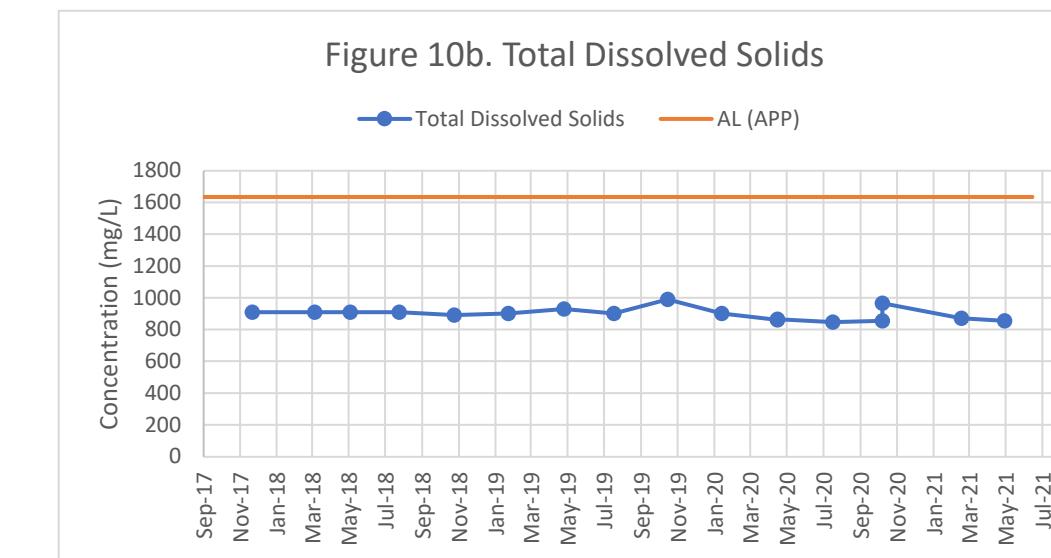
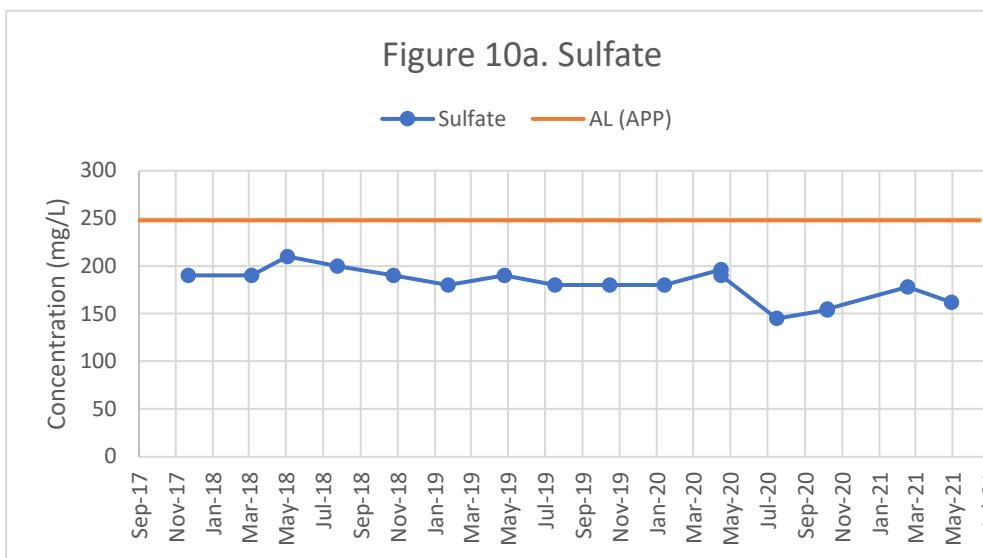
Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M16-GU(R) QUARTERLY CONCENTRATION GRAPHS

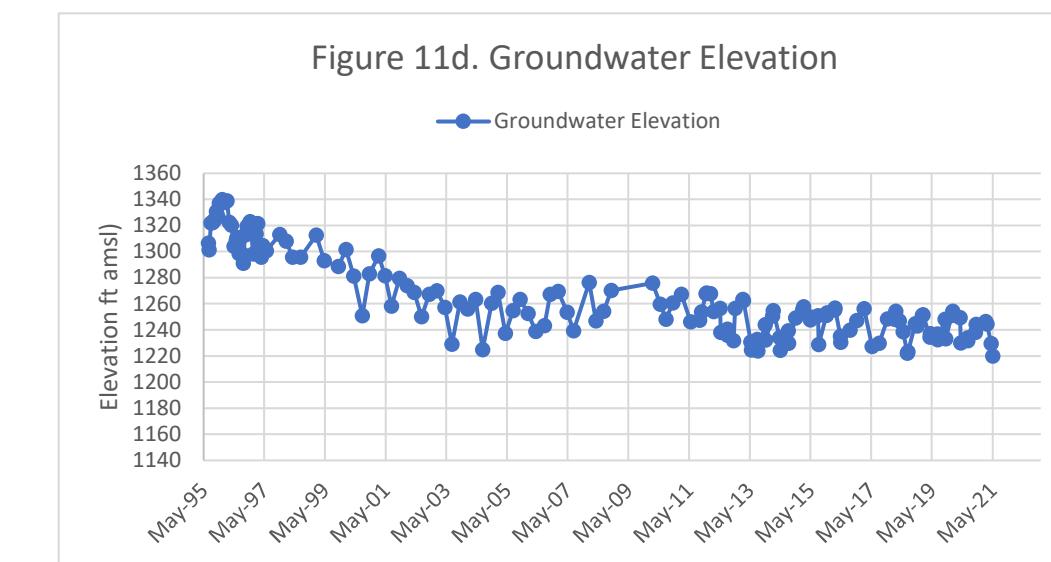
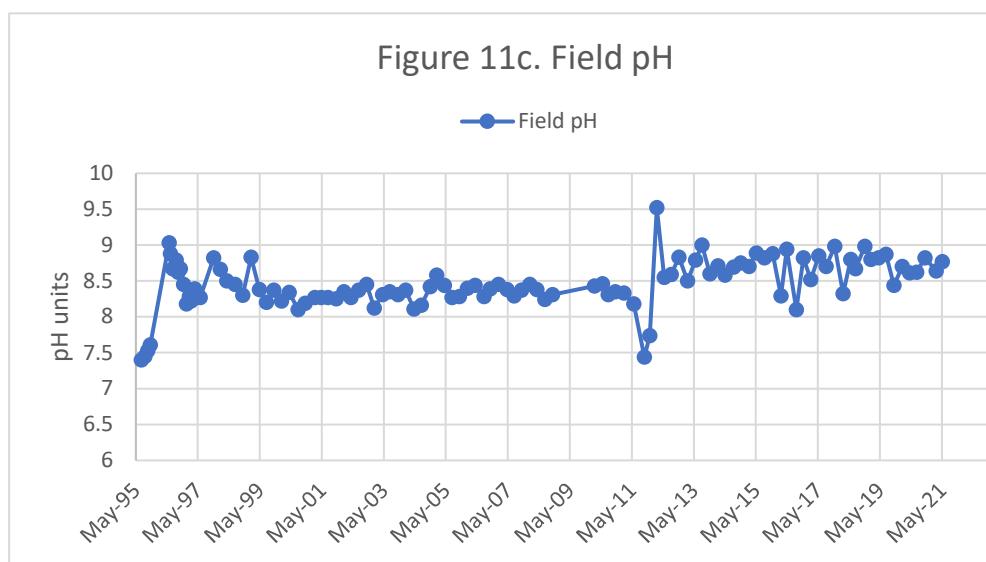
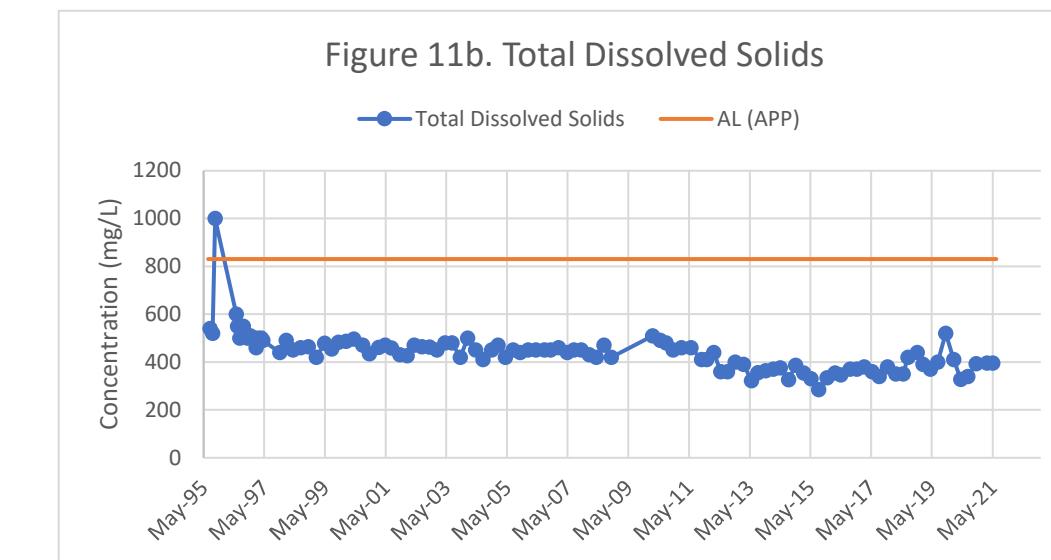
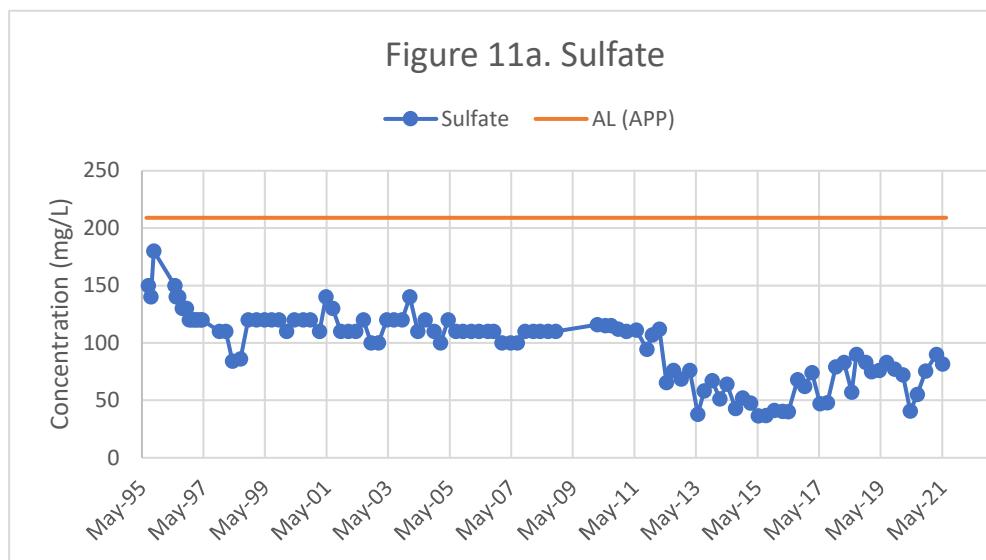


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M17-GL QUARTERLY CONCENTRATION GRAPHS

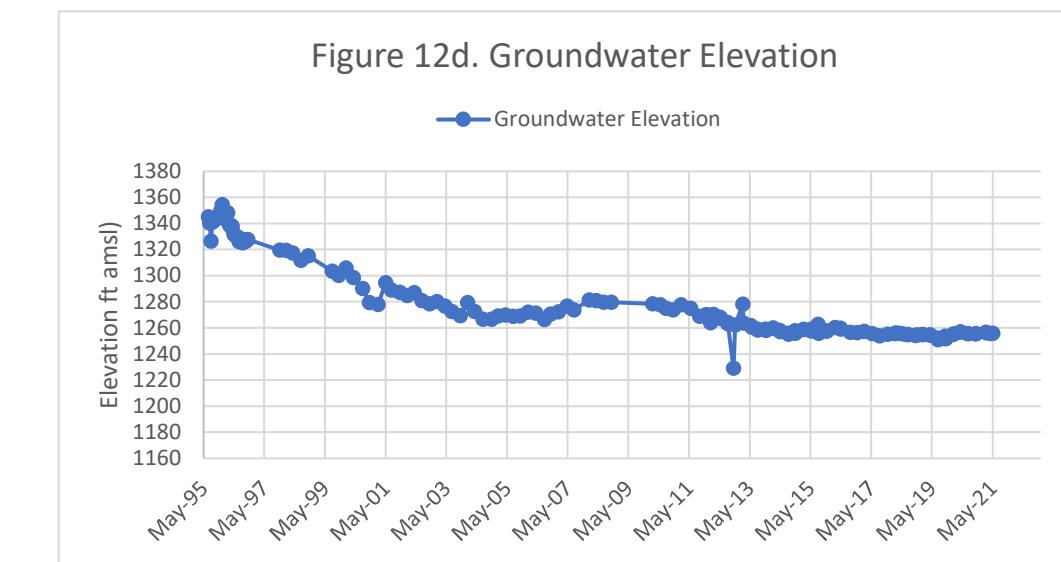
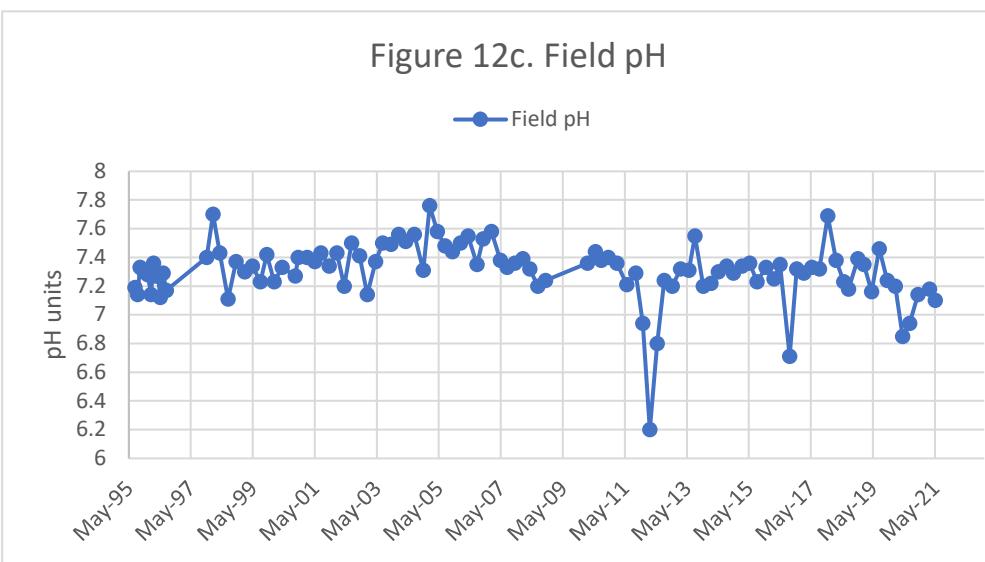
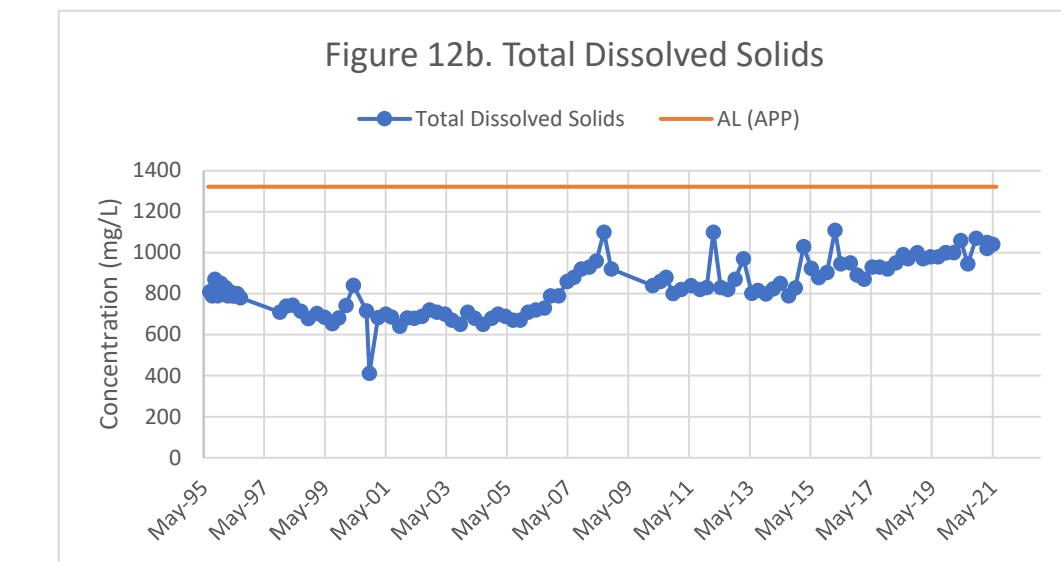
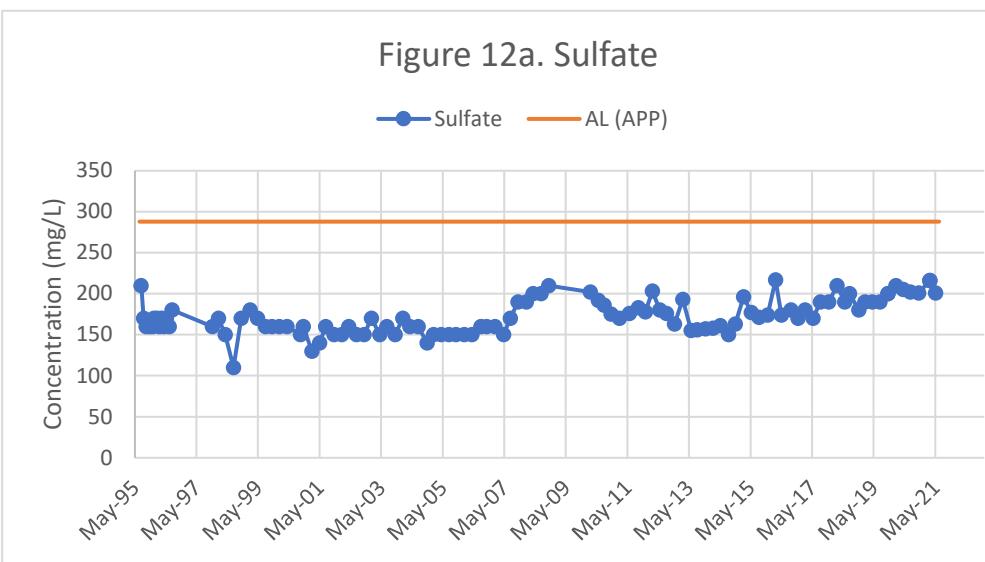


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M18-GU QUARTERLY CONCENTRATION GRAPHS

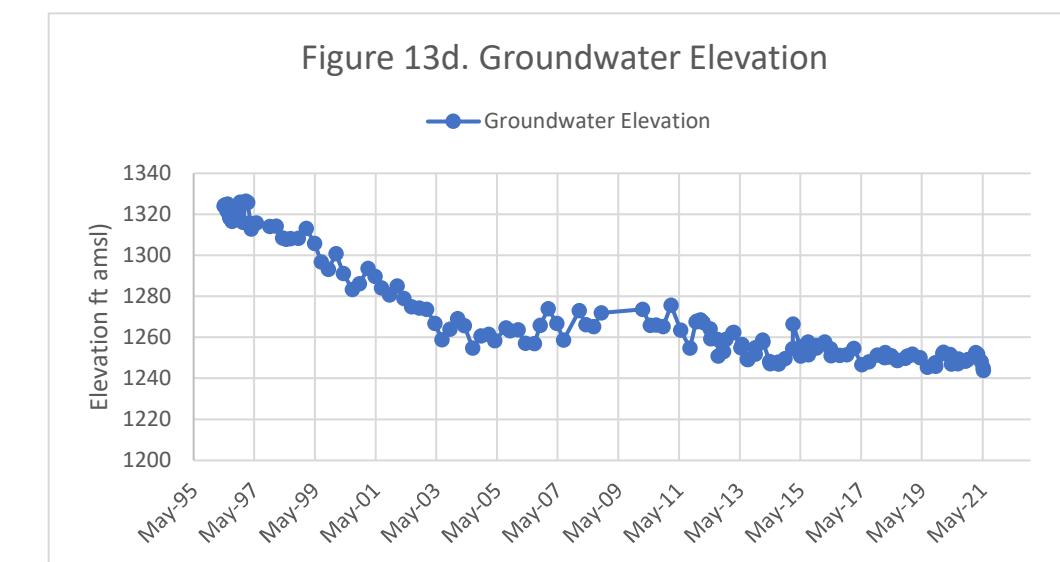
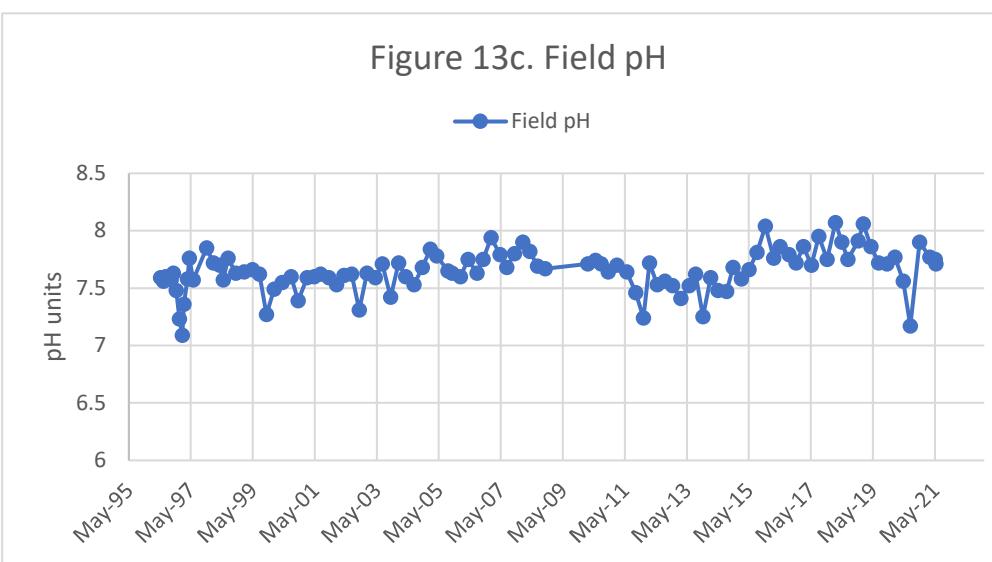
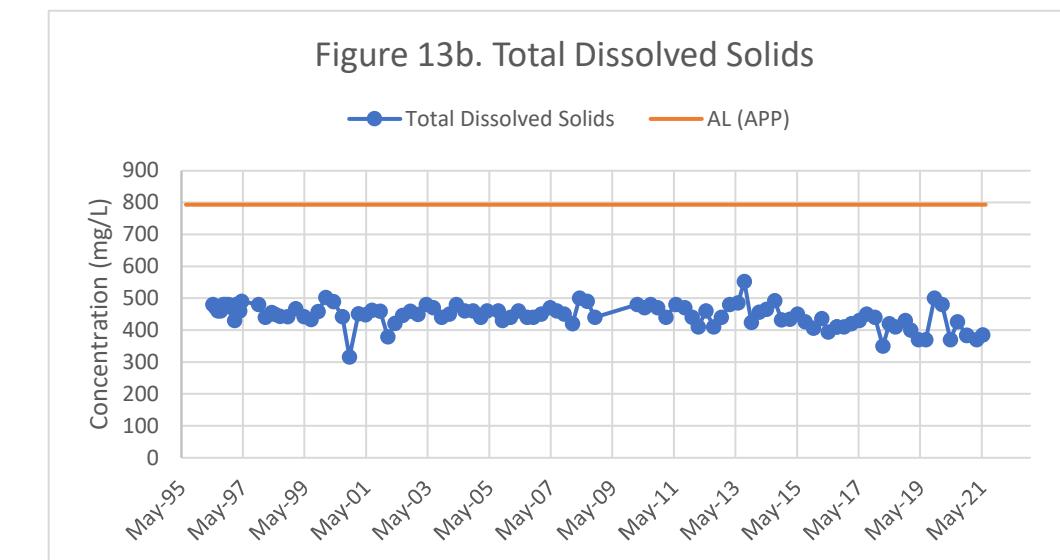
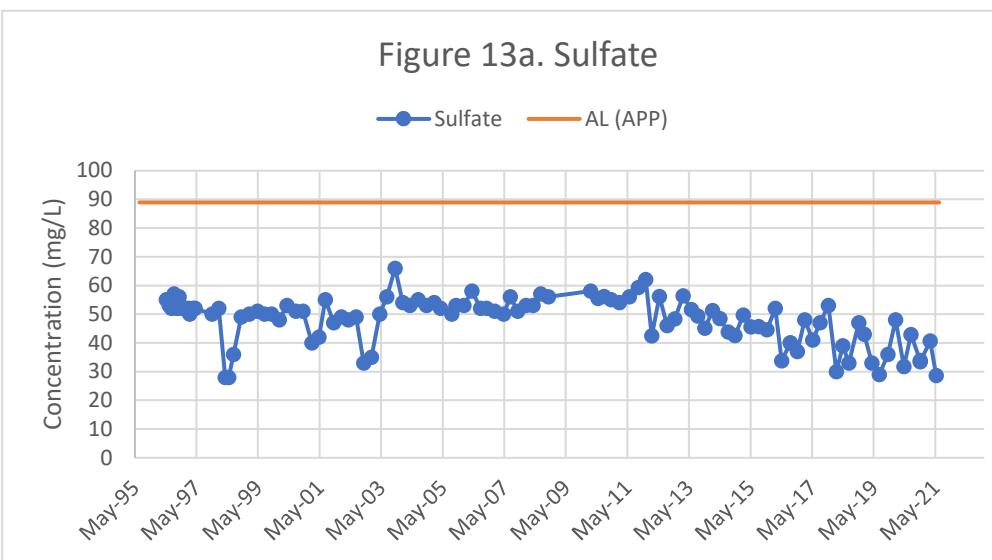


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M19-LBF QUARTERLY CONCENTRATION GRAPHS

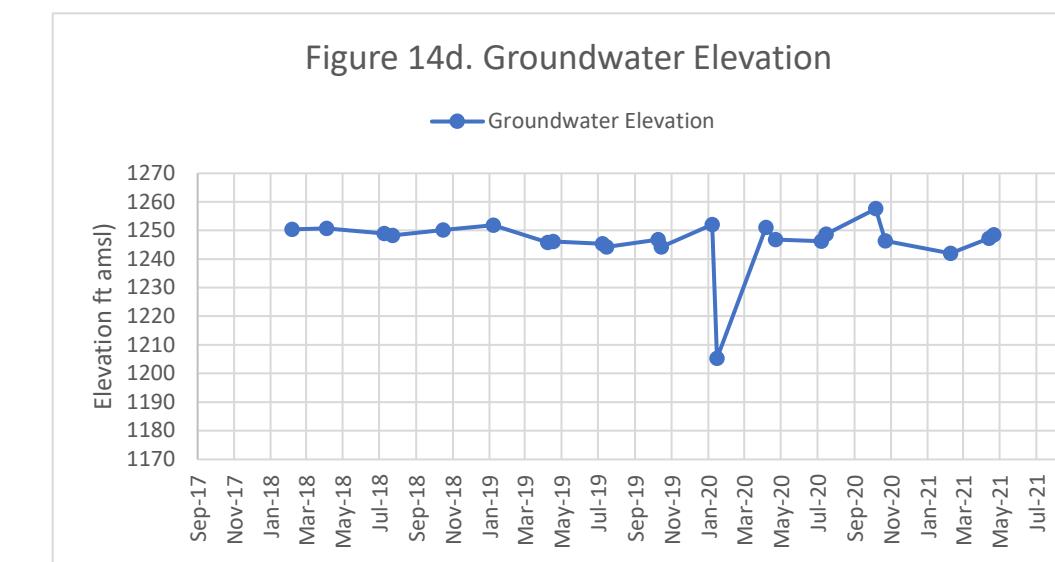
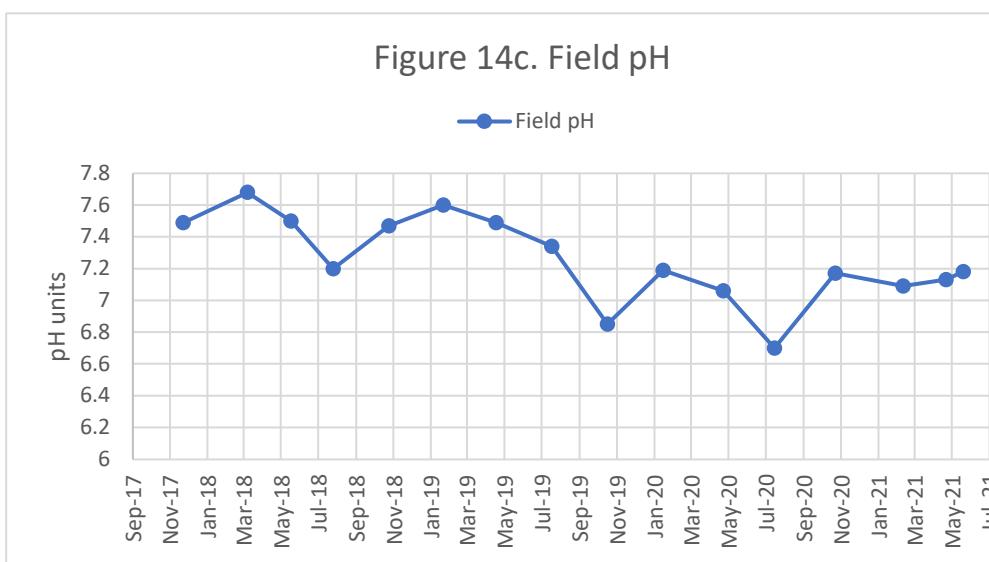
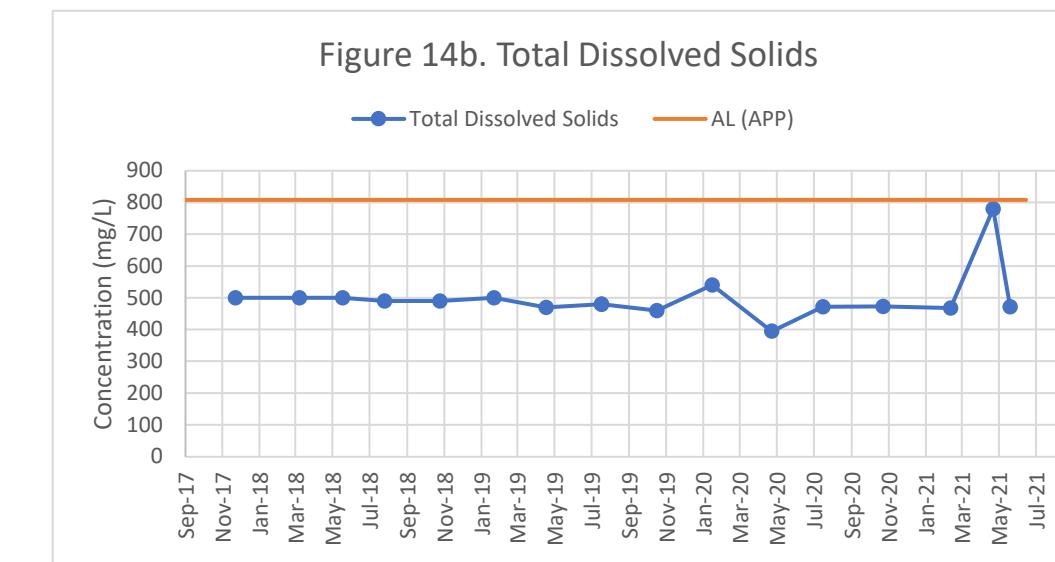
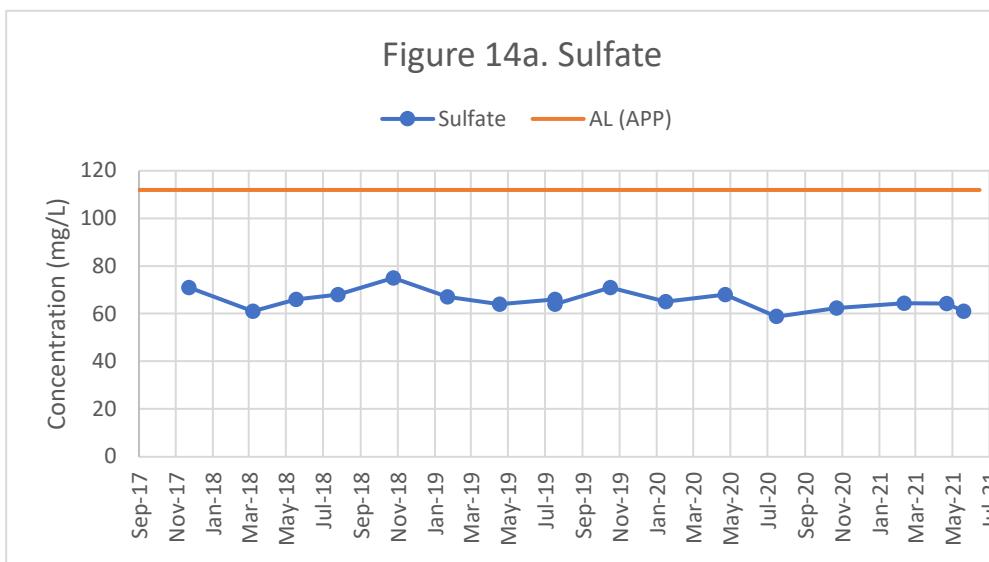


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M20-O(R) QUARTERLY CONCENTRATION GRAPHS

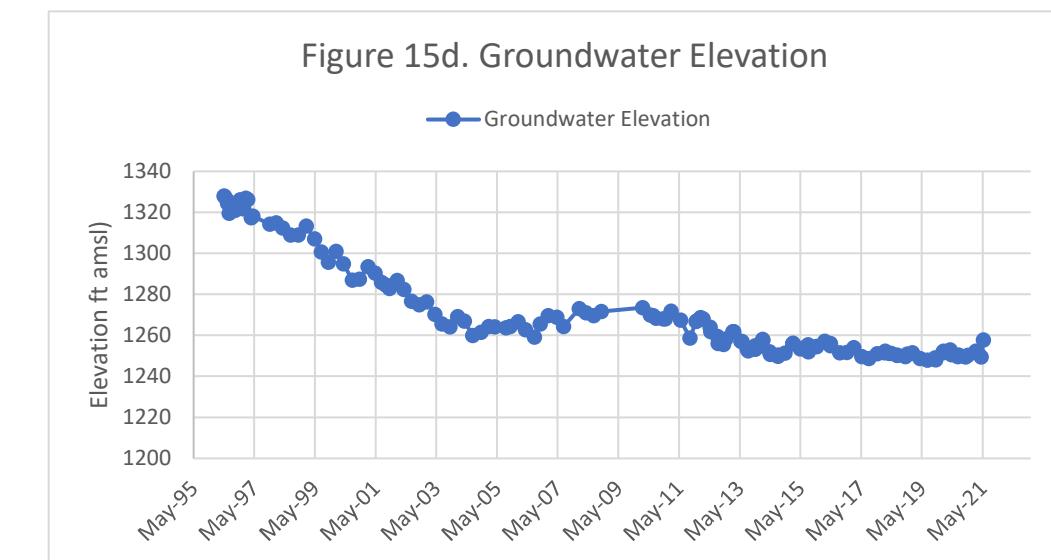
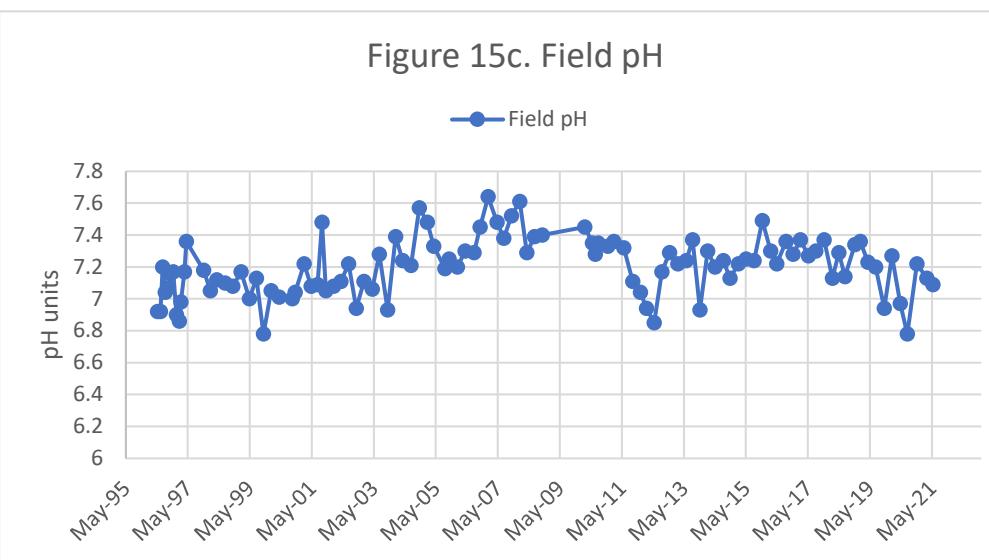
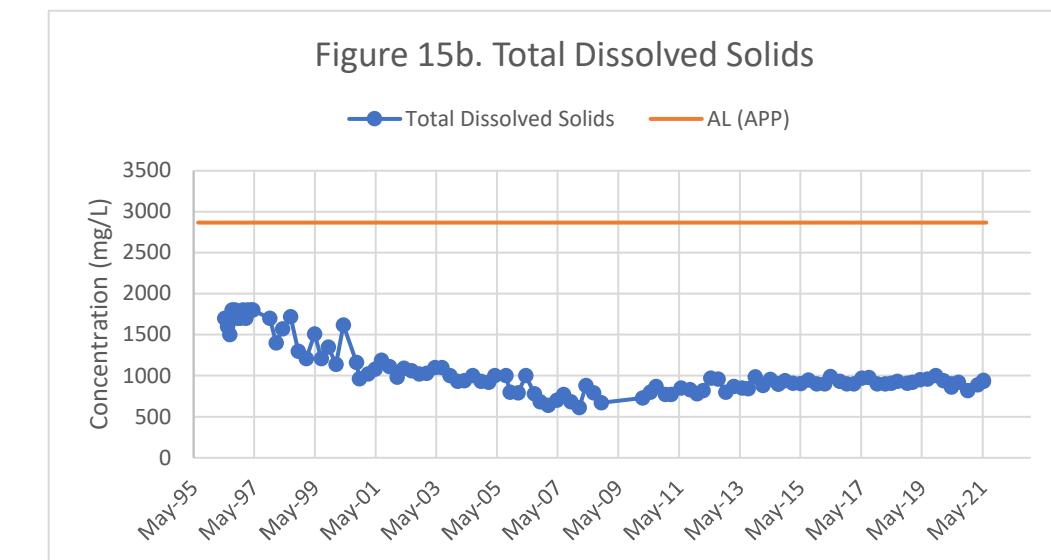
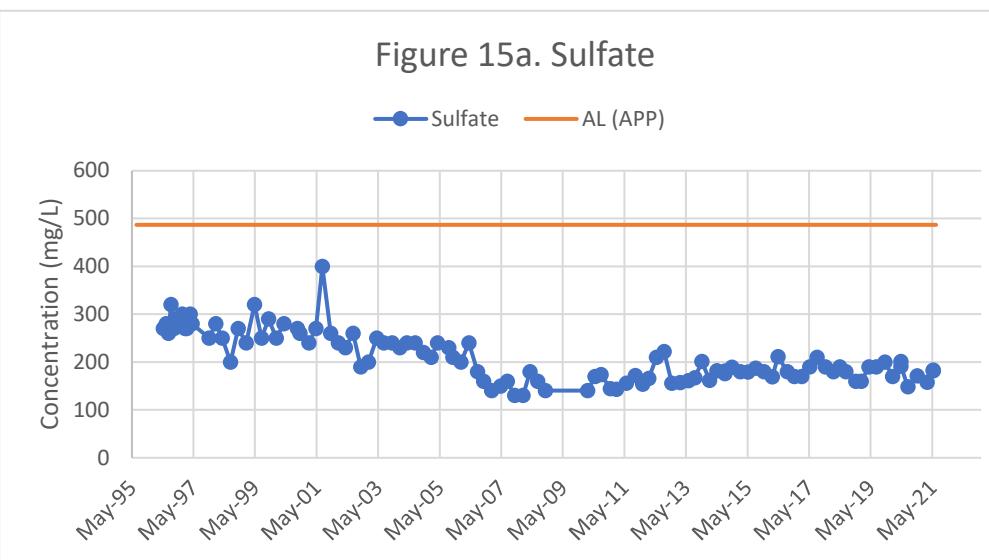


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M21-UBF QUARTERLY CONCENTRATION GRAPHS

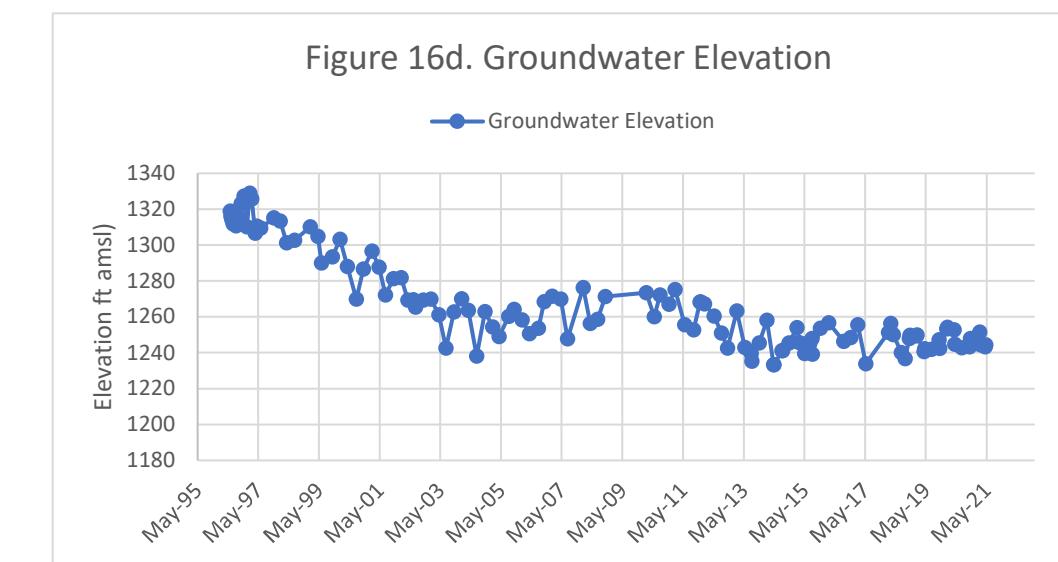
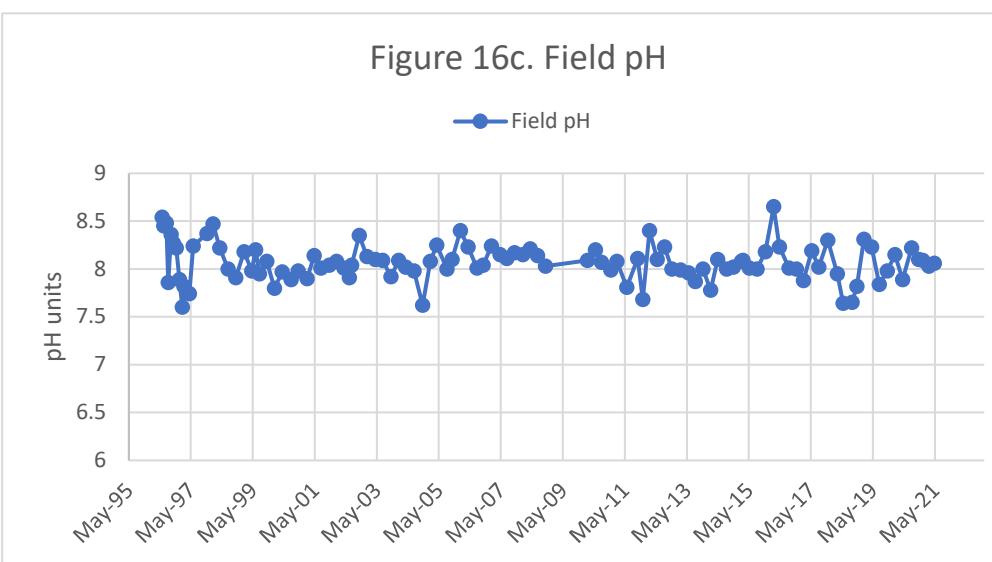
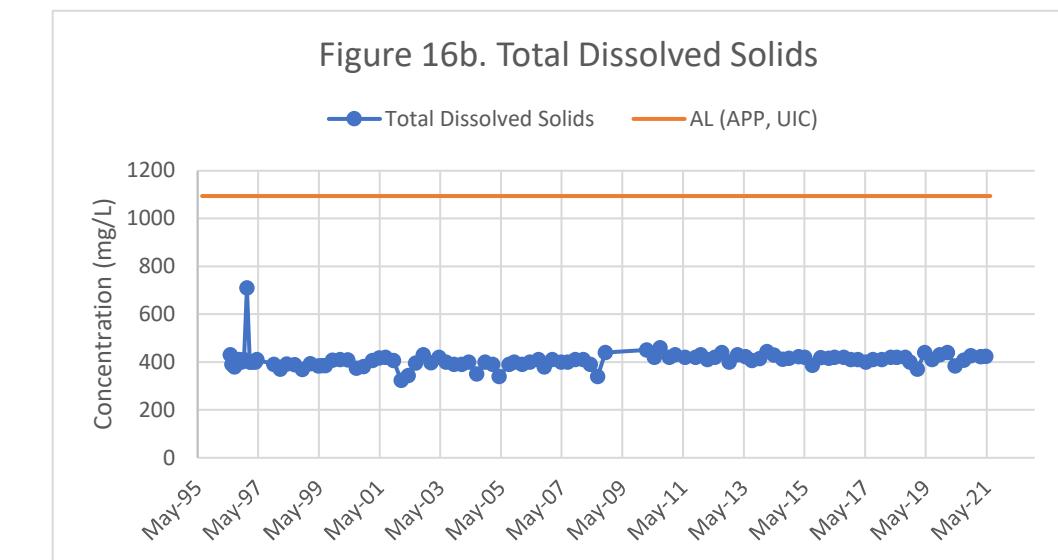
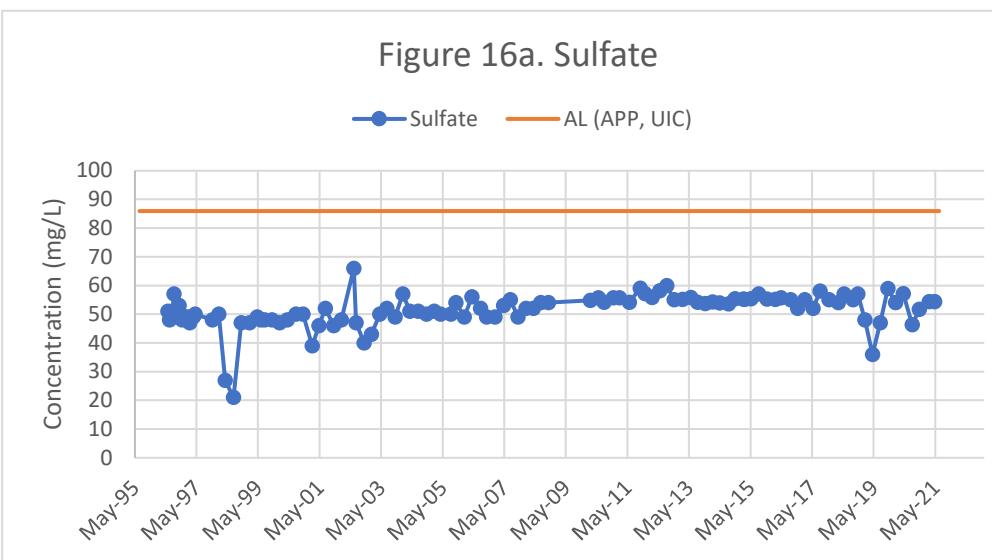


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AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M22-O QUARTERLY CONCENTRATION GRAPHS



Notes:

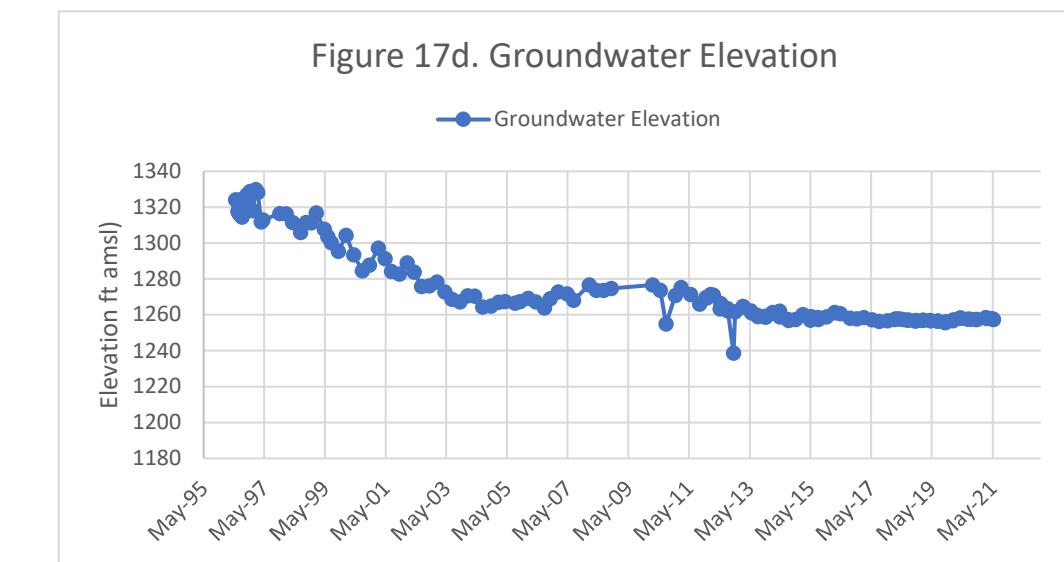
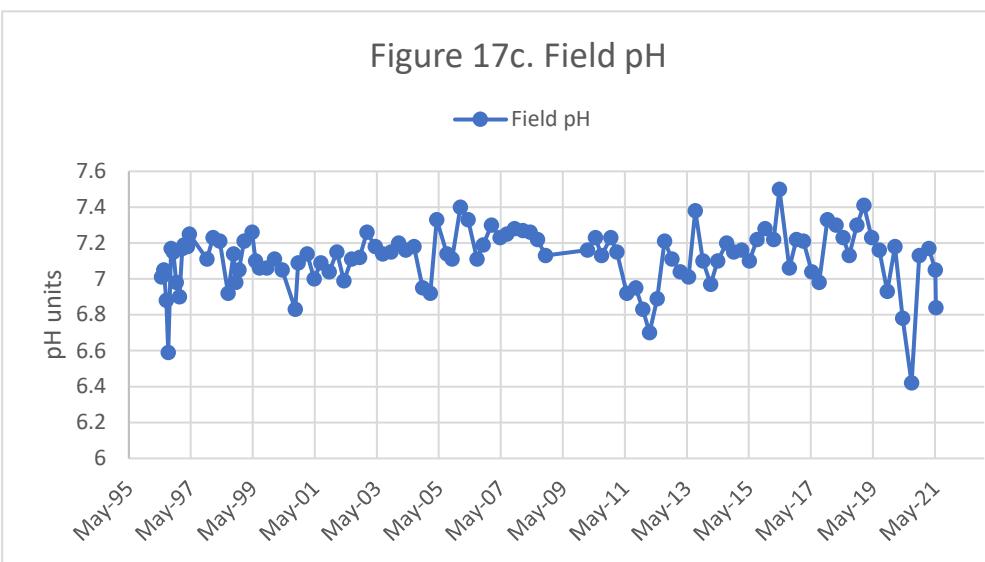
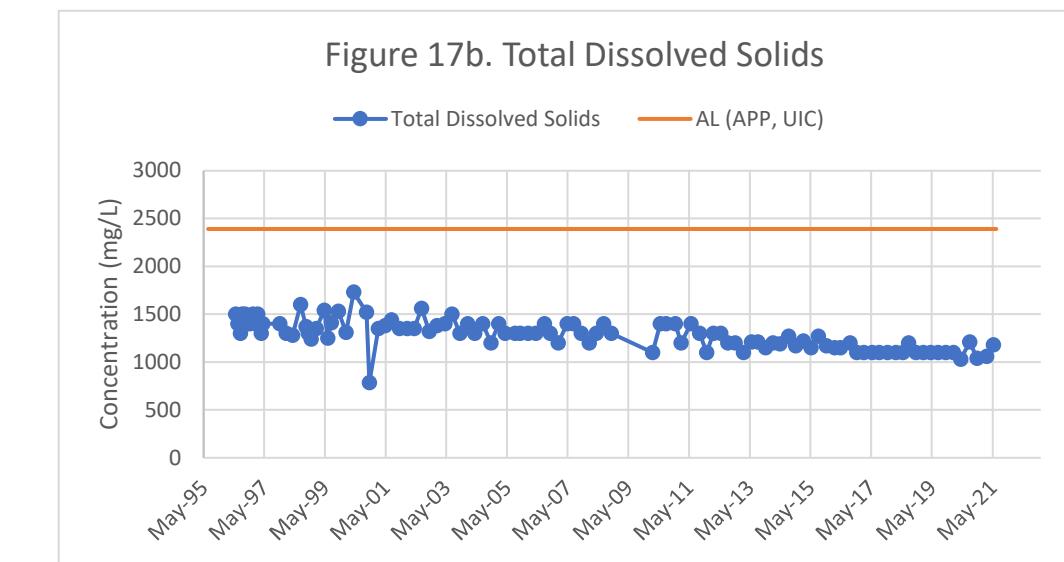
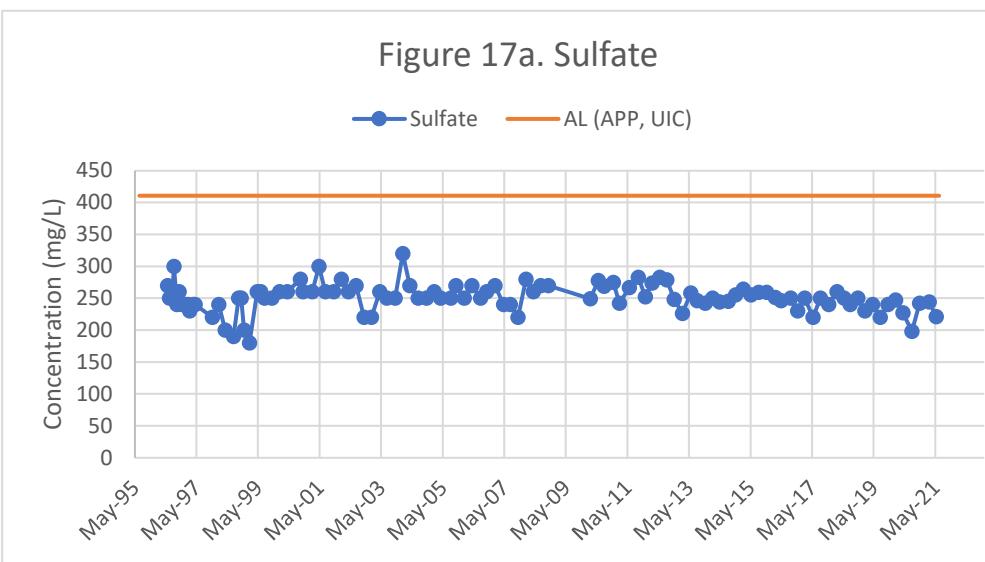
Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M23-UBF QUARTERLY CONCENTRATION GRAPHS



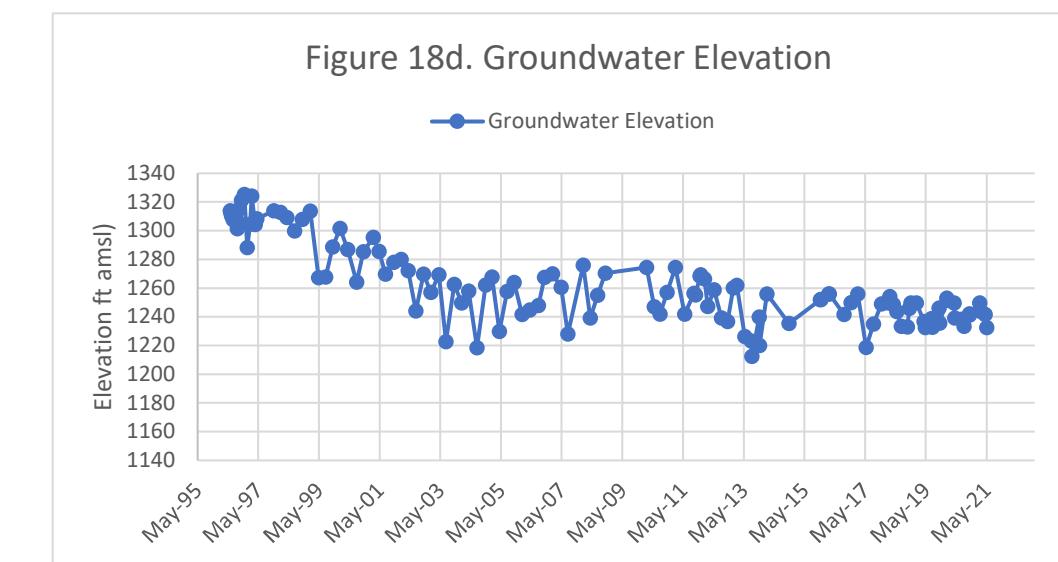
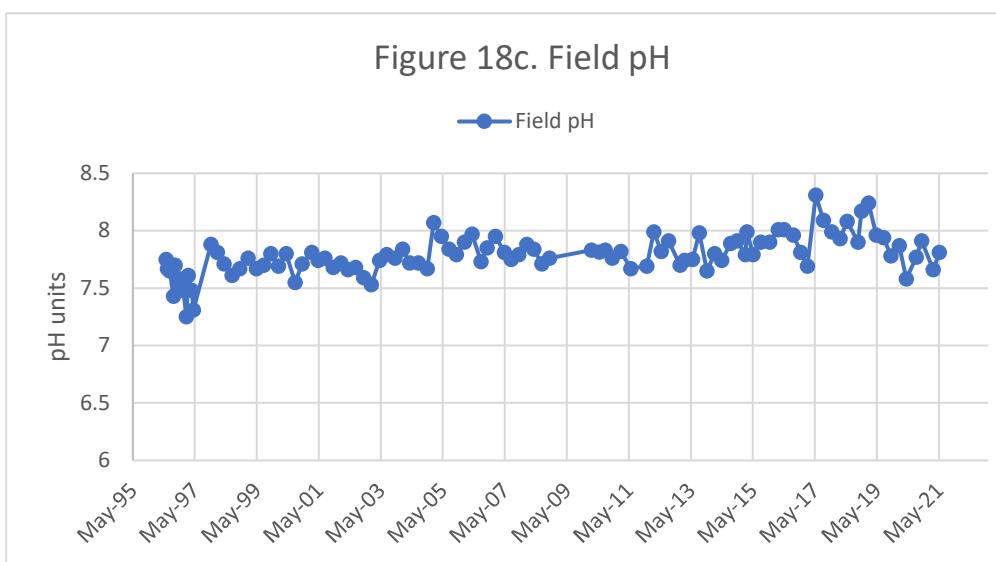
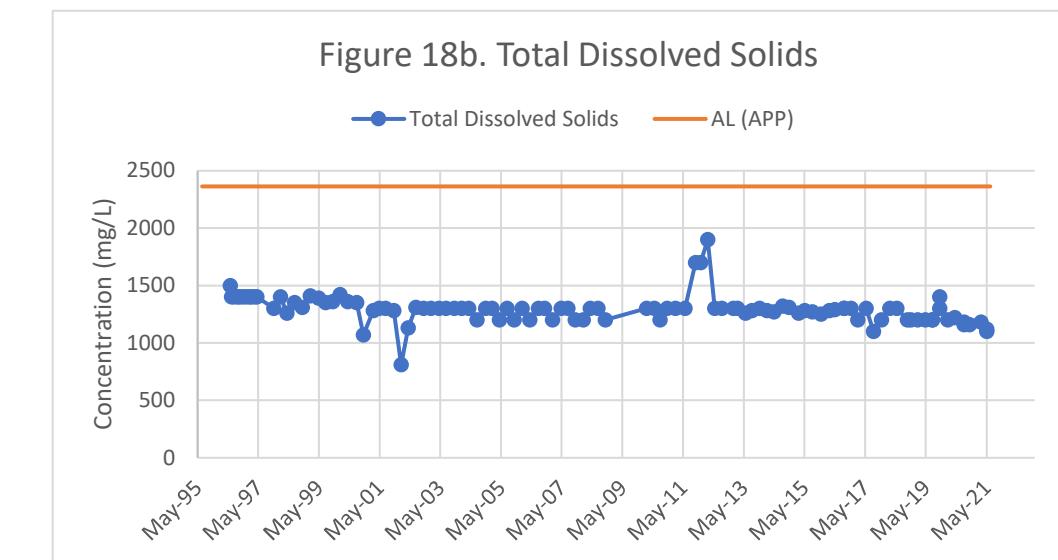
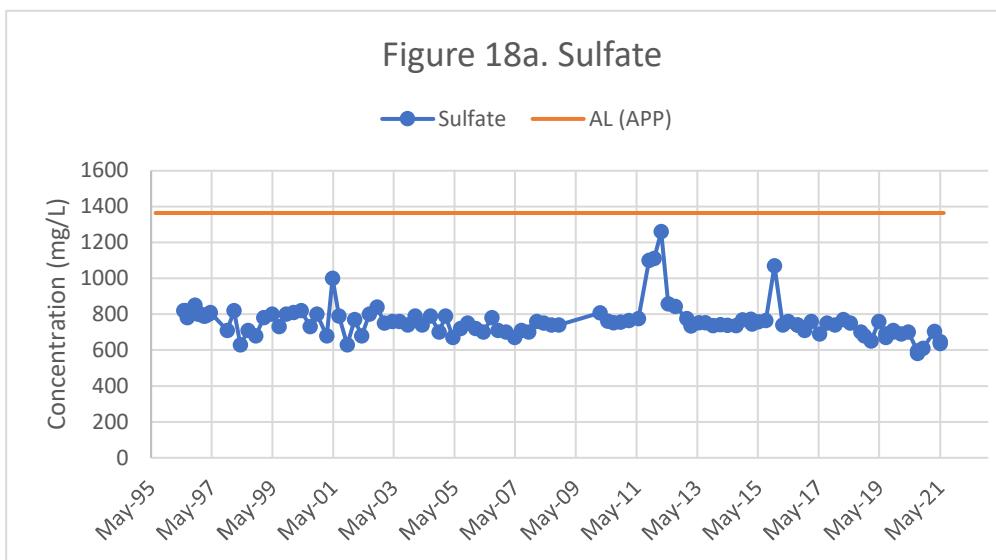
Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M24-O QUARTERLY CONCENTRATION GRAPHS

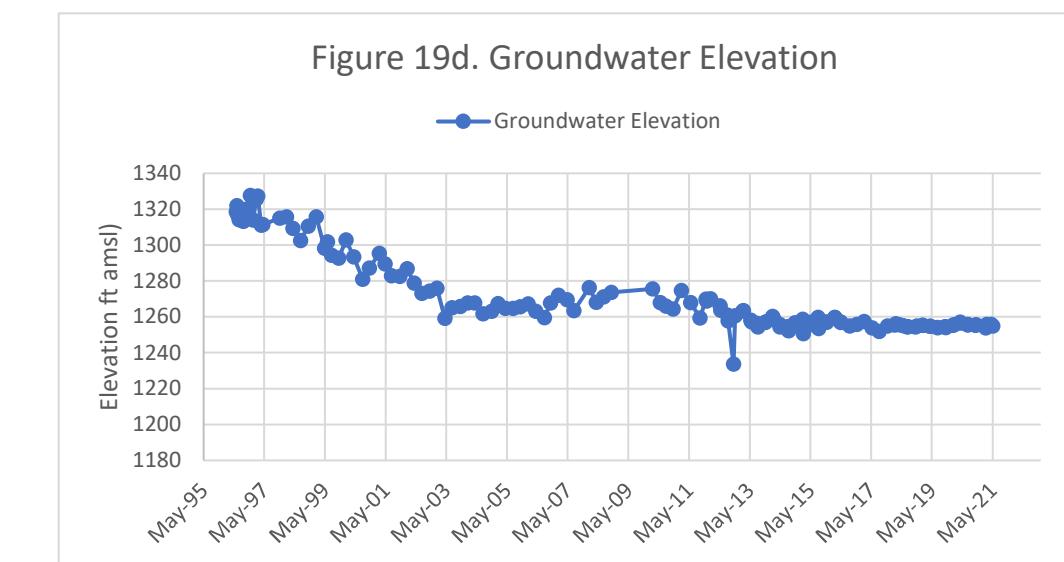
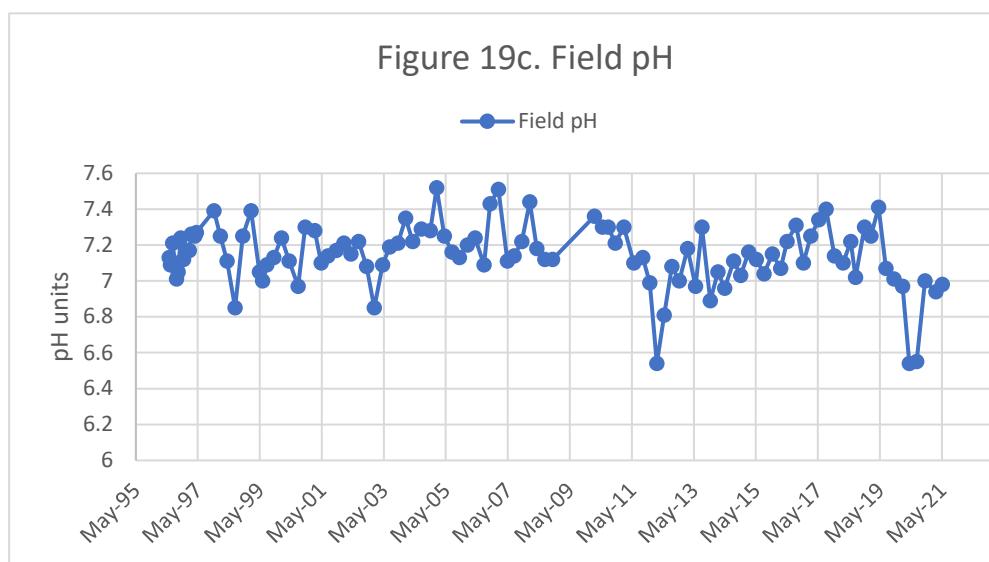
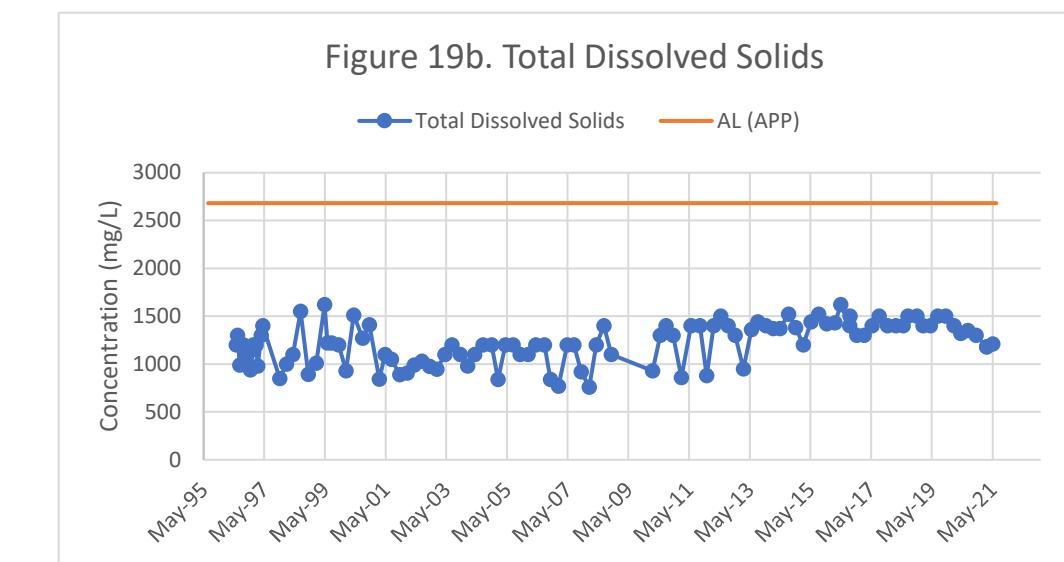
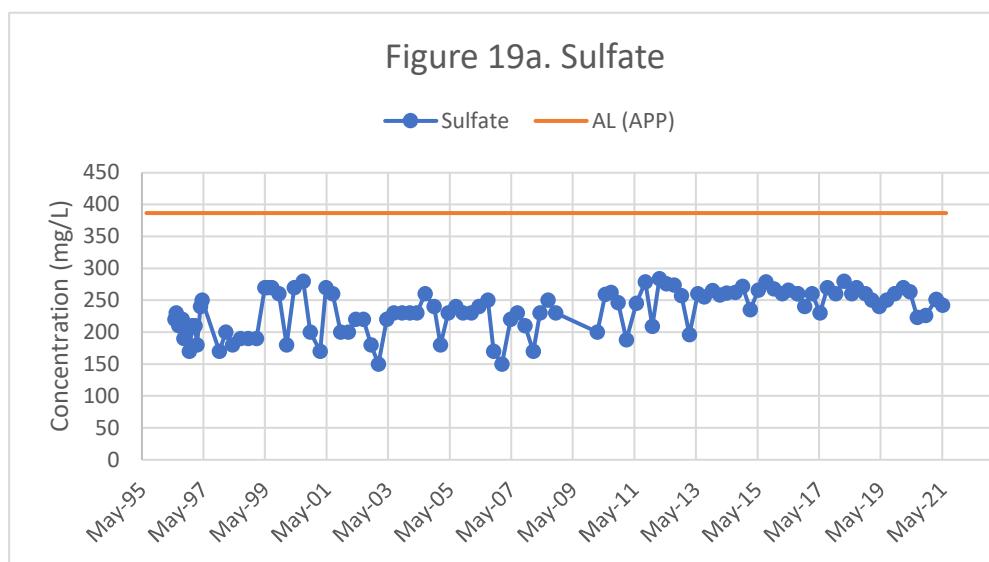


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M25-UBF QUARTERLY CONCENTRATION GRAPHS

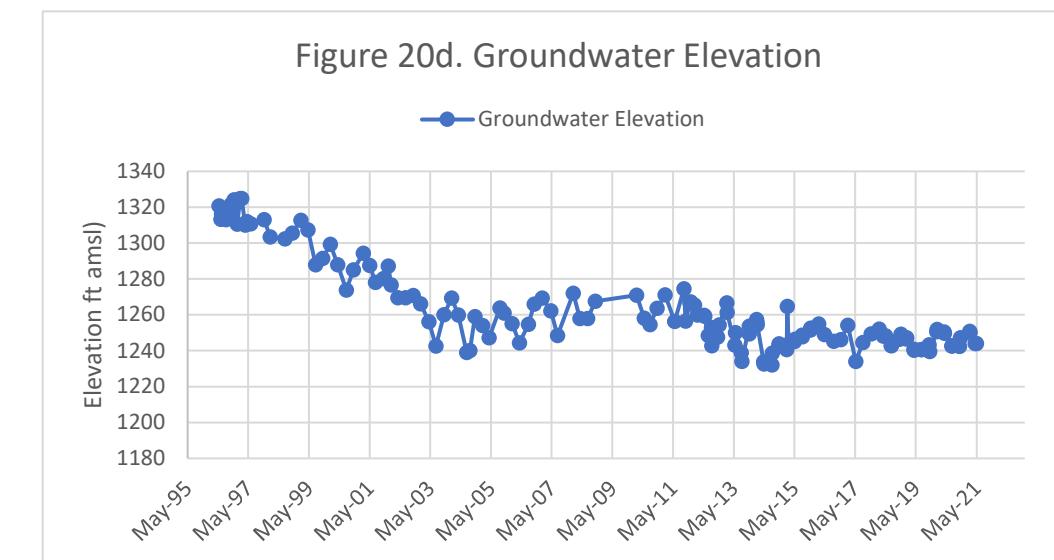
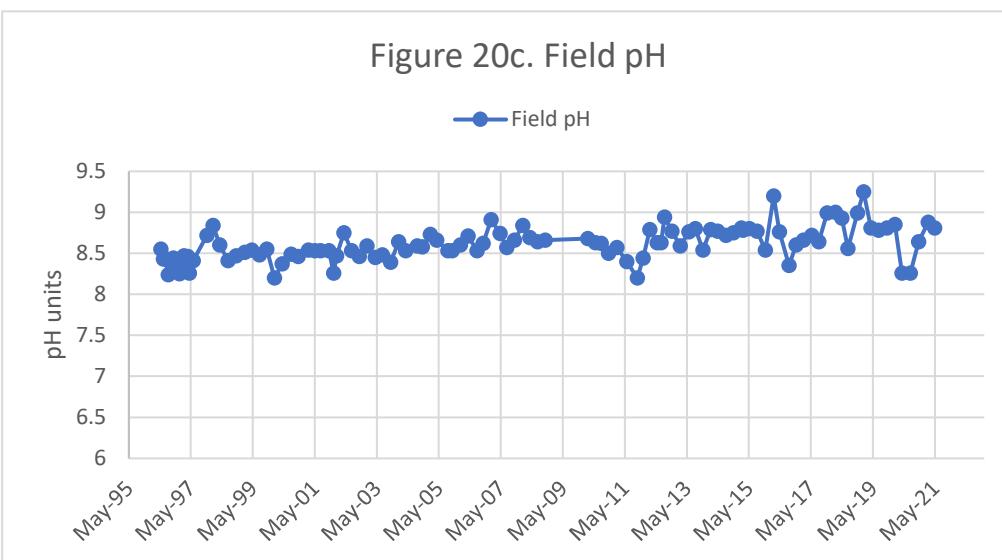
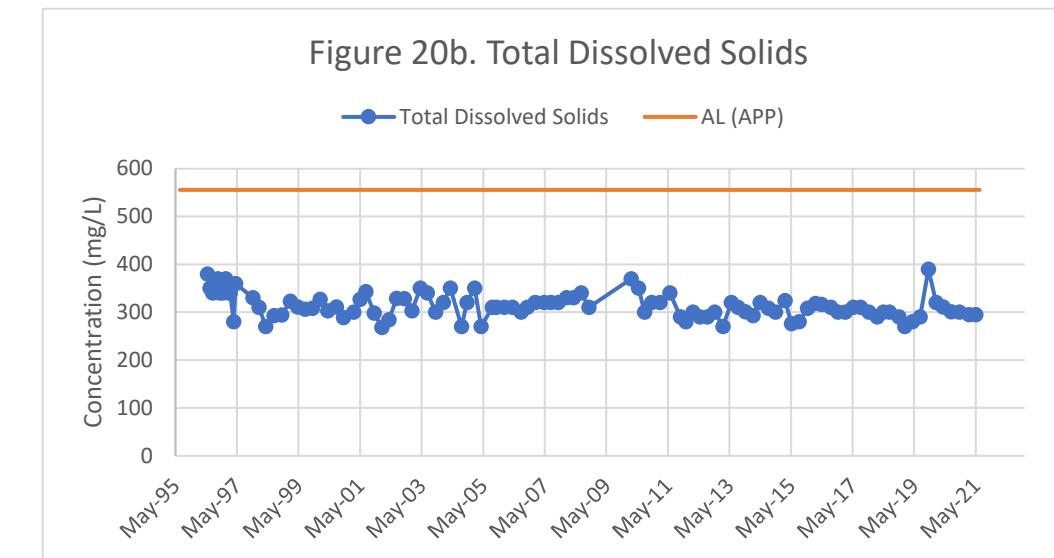
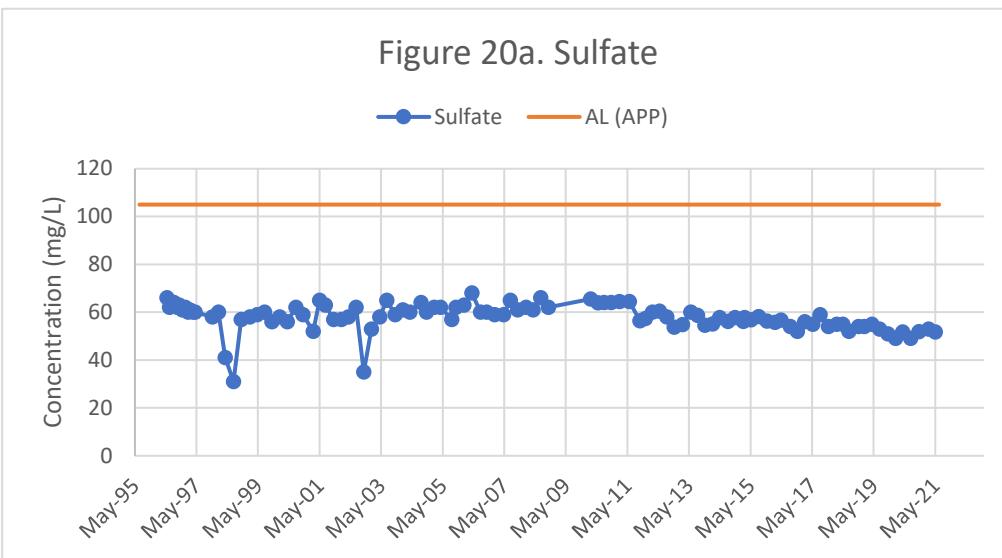


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M26-O QUARTERLY CONCENTRATION GRAPHS

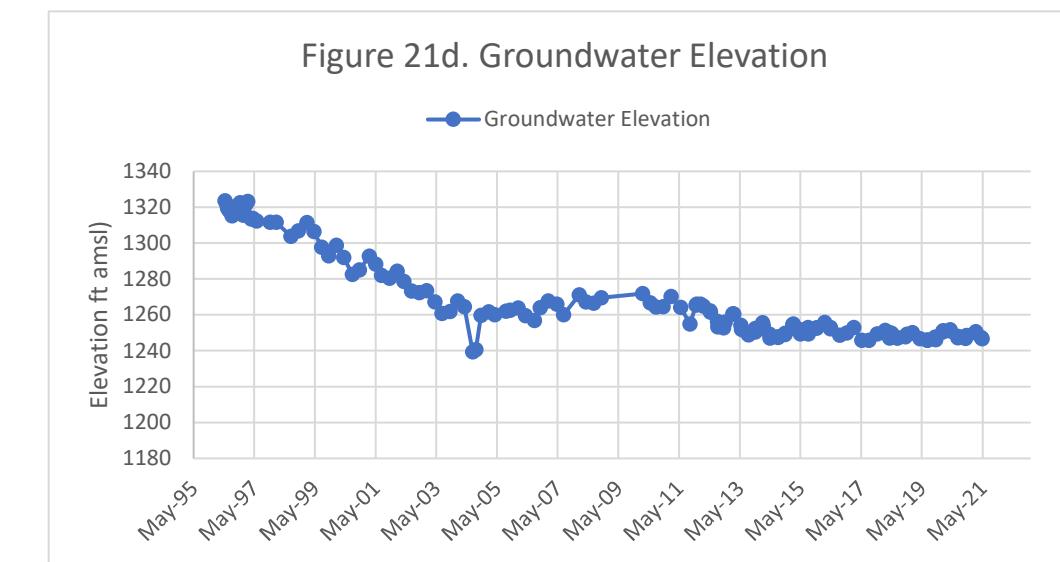
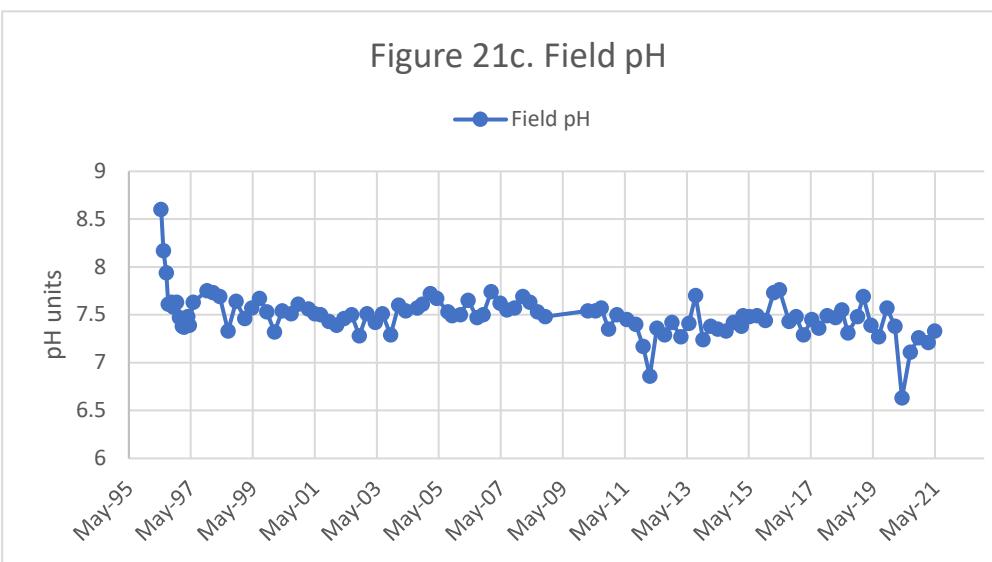
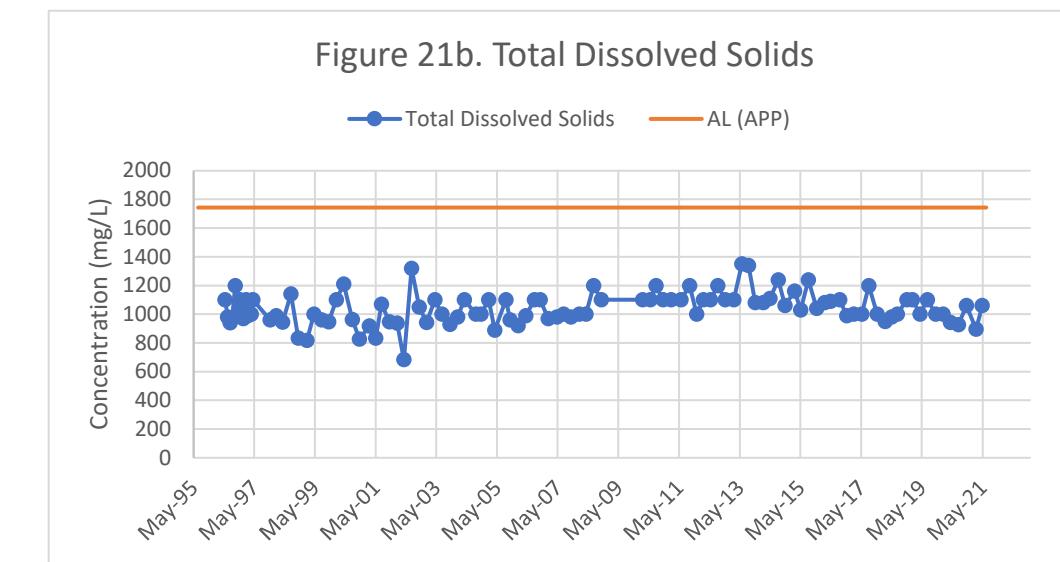
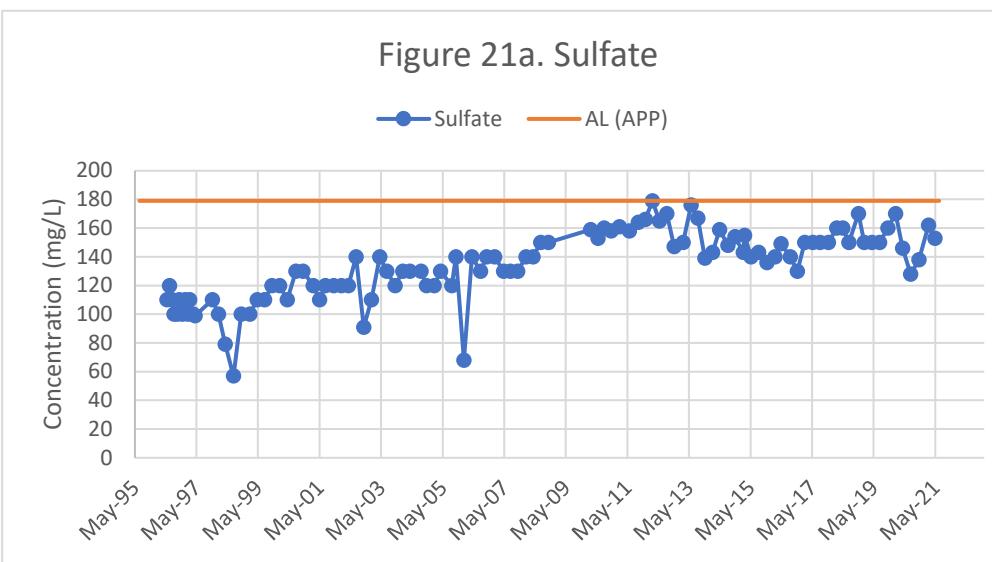


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M27-LBF QUARTERLY CONCENTRATION GRAPHS

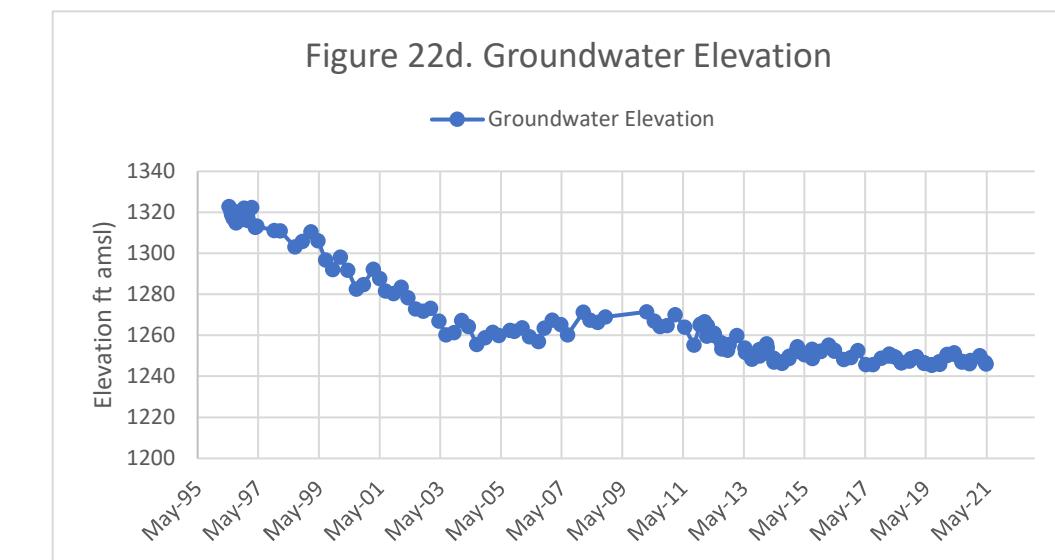
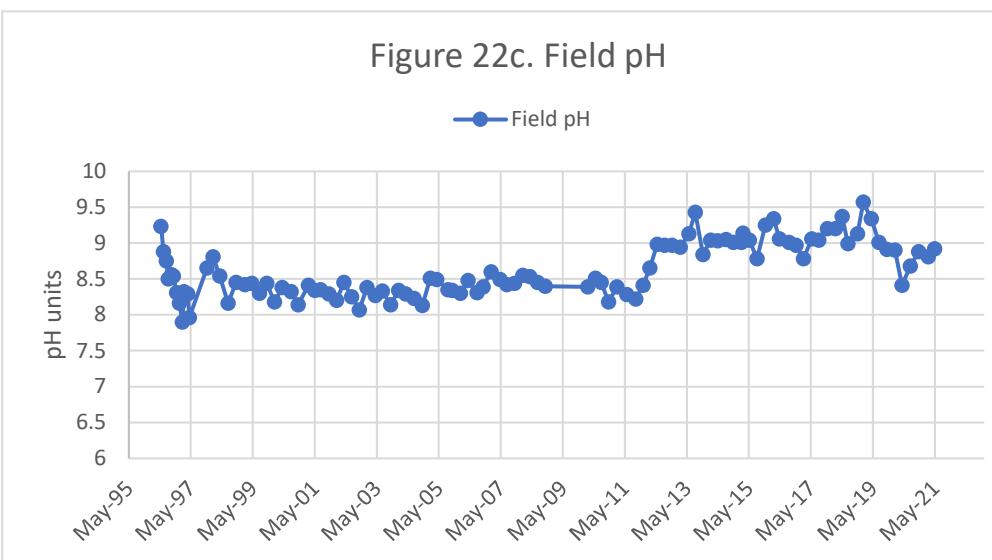
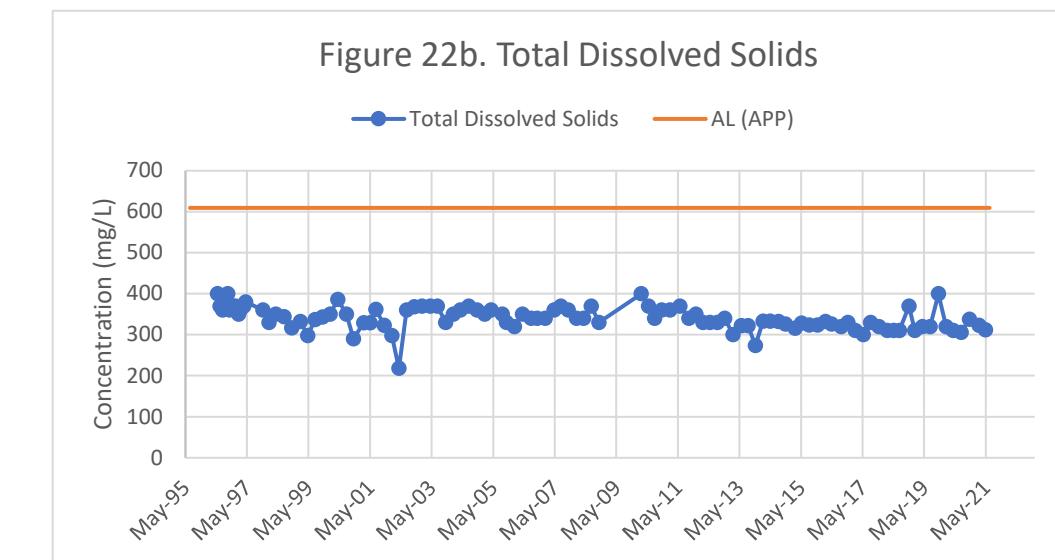
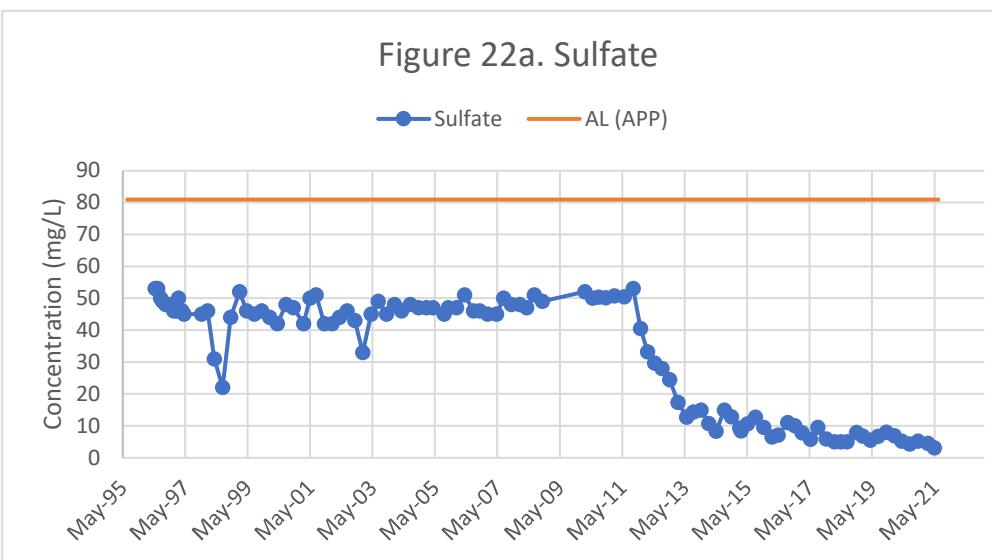


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M28-LBF QUARTERLY CONCENTRATION GRAPHS

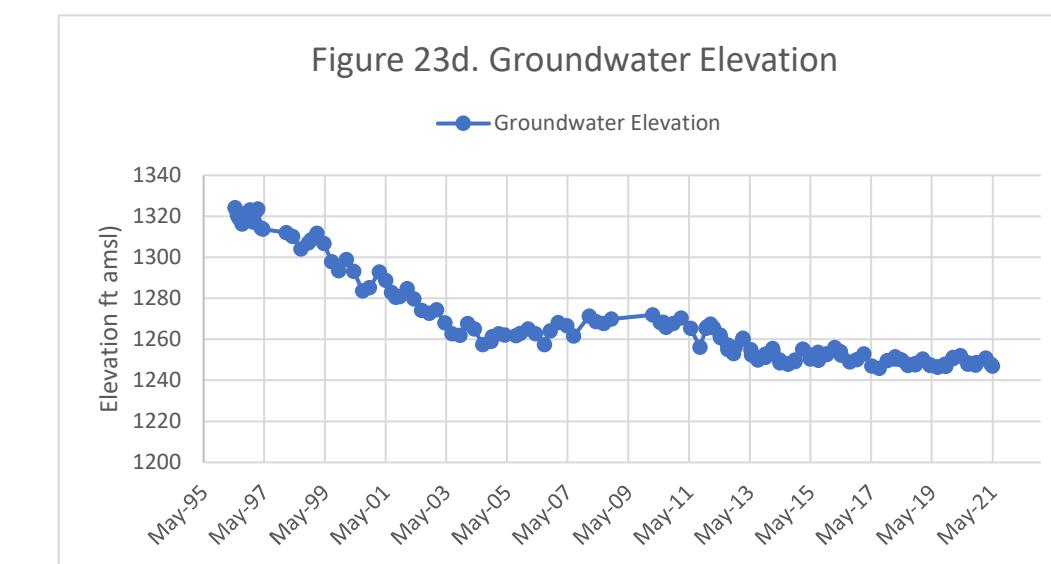
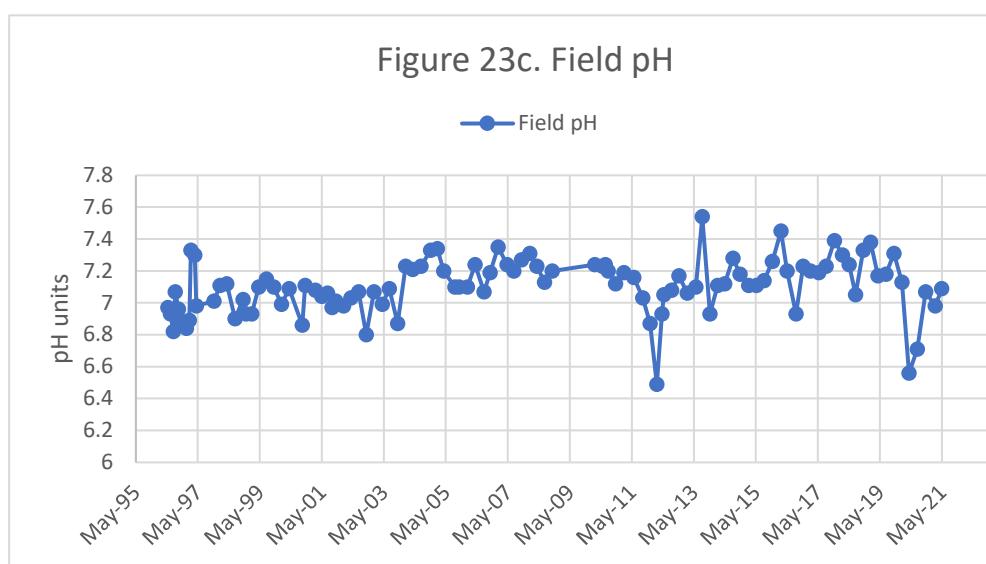
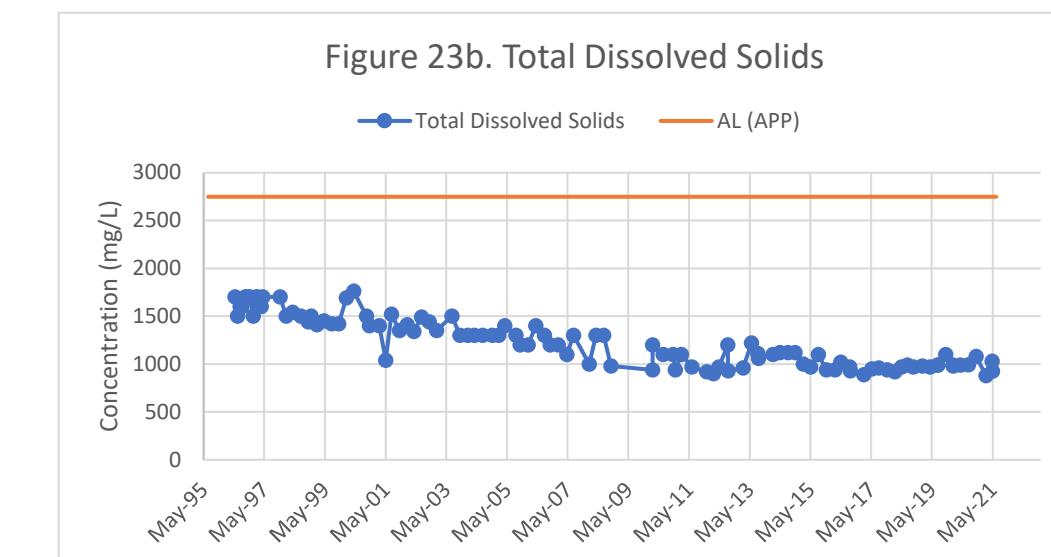
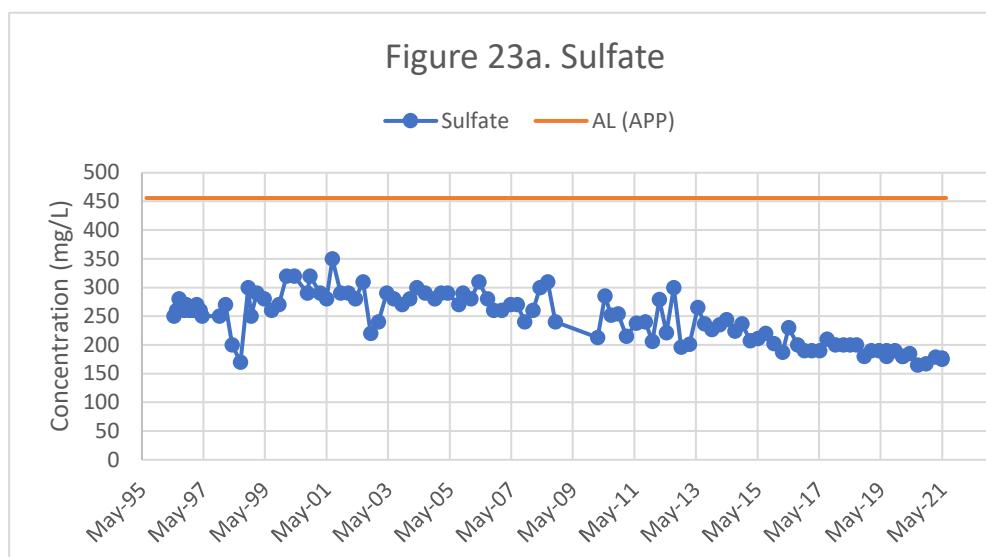


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M29-UBF QUARTERLY CONCENTRATION GRAPHS



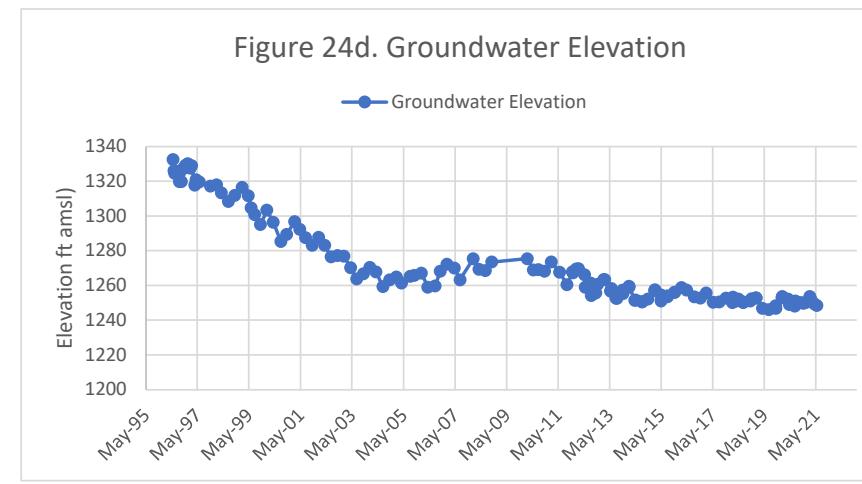
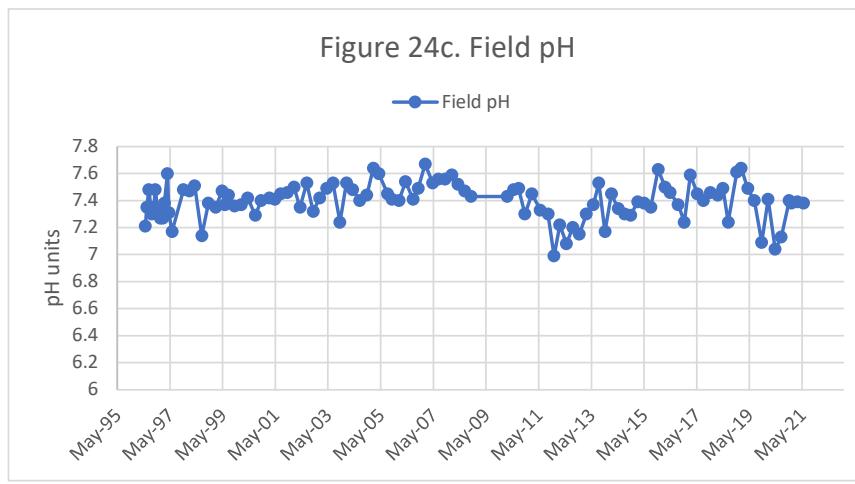
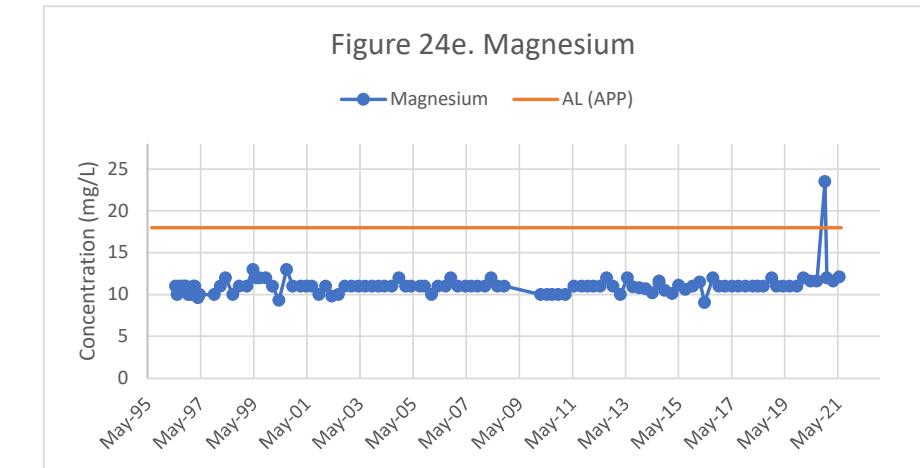
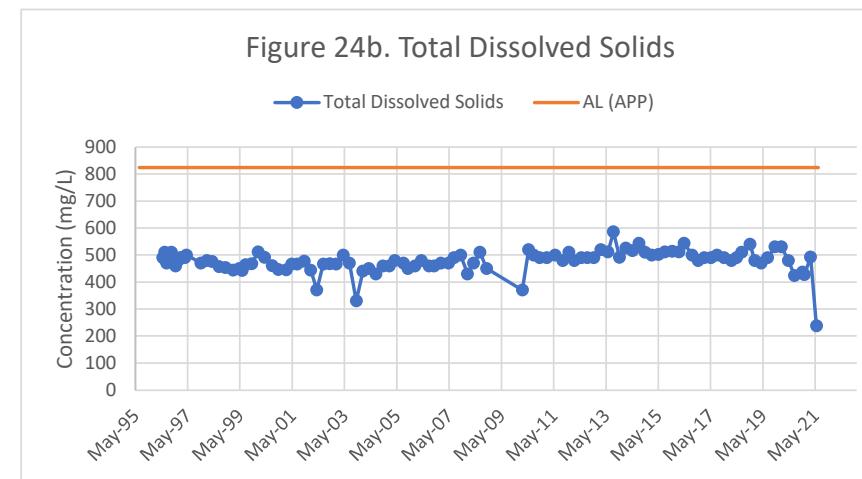
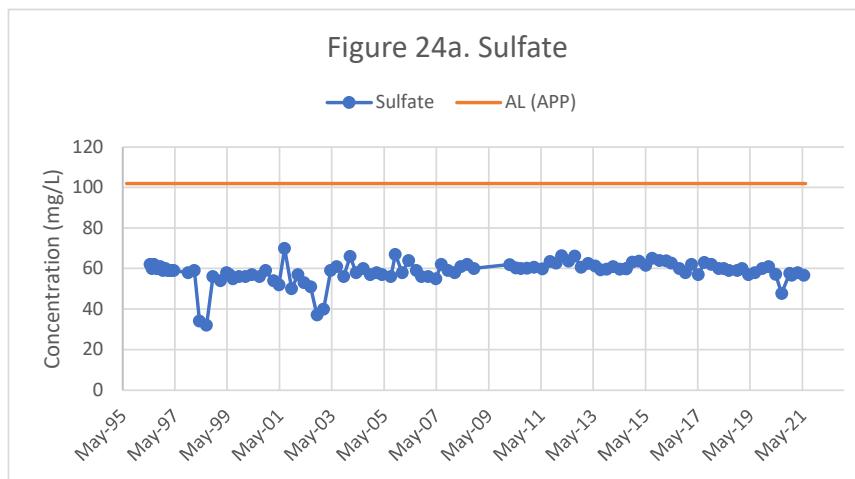
Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M30-O QUARTERLY CONCENTRATION GRAPHS

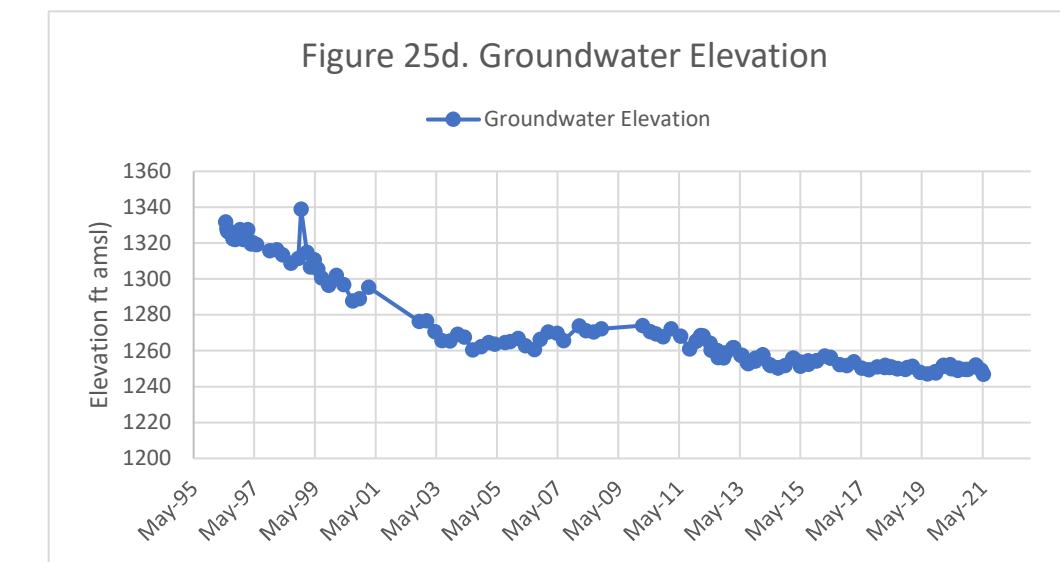
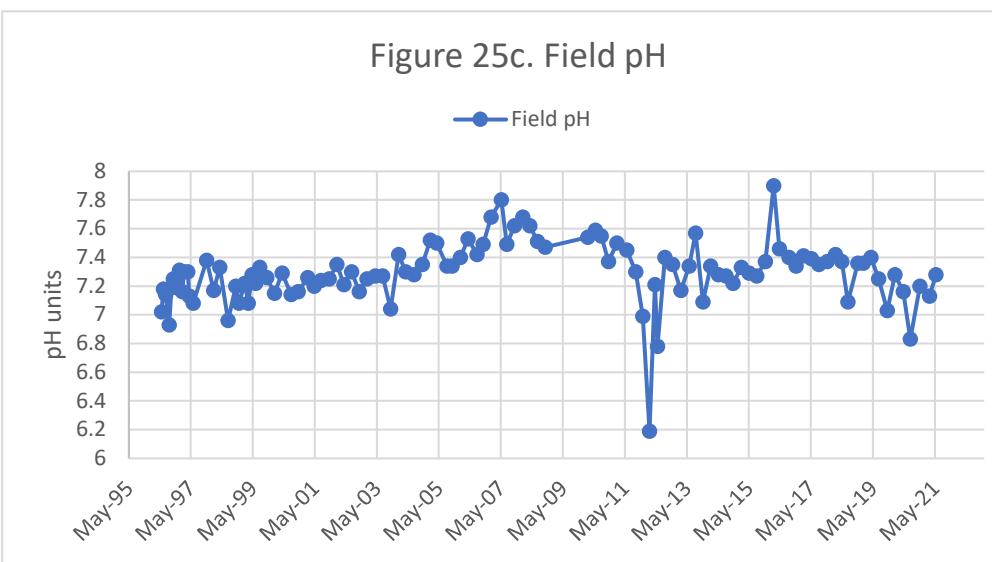
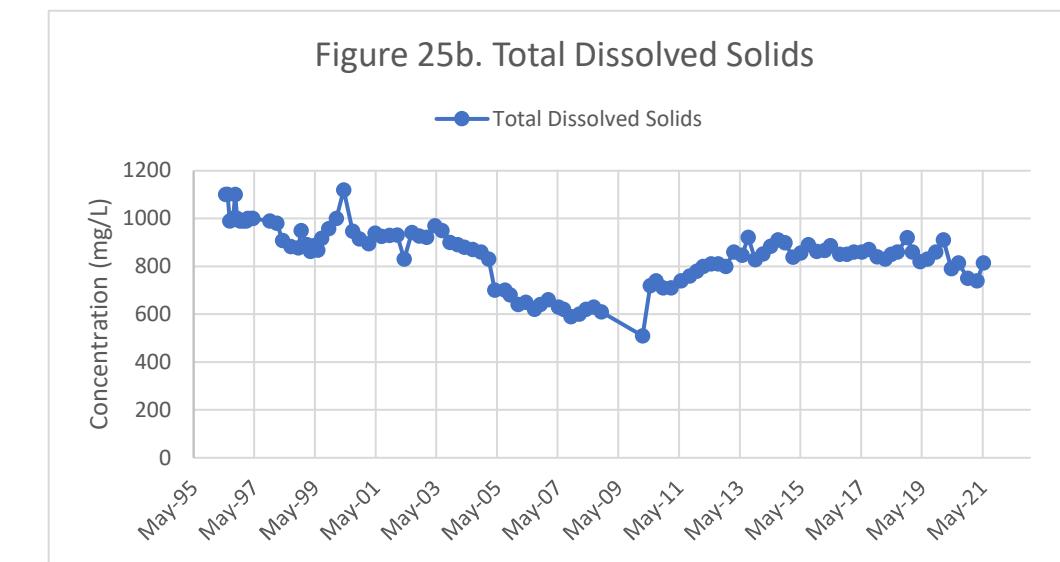
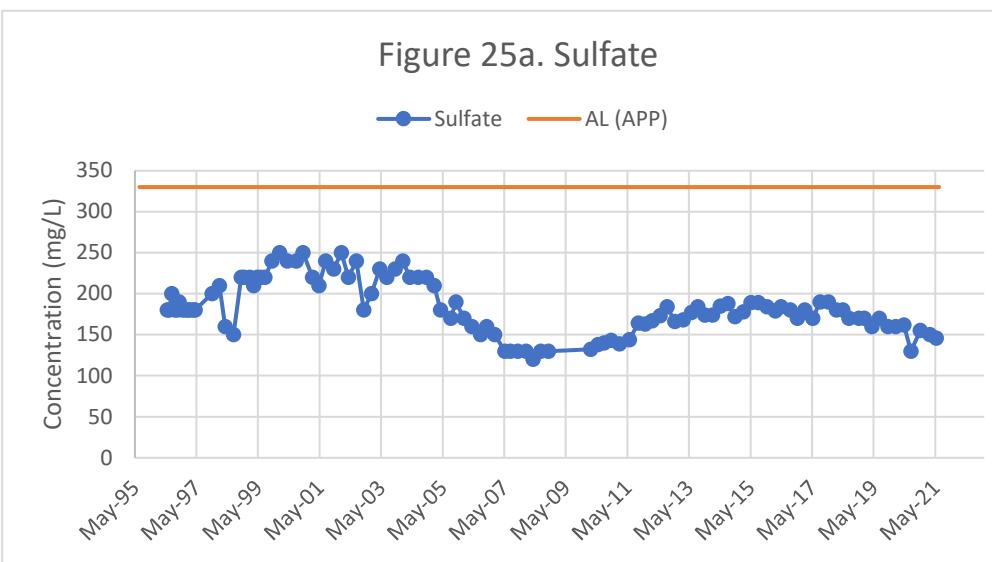


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M31-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M32-UBF QUARTERLY CONCENTRATION GRAPHS

Figure 26a. Sulfate

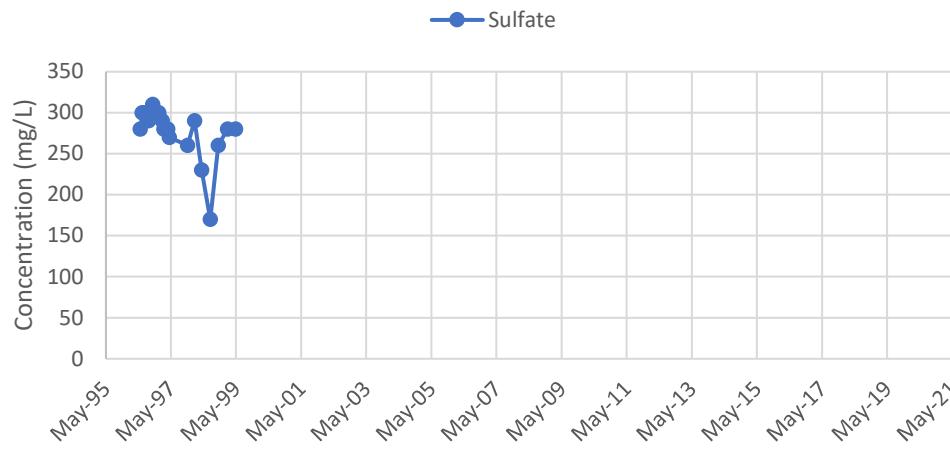


Figure 26b. Total Dissolved Solids

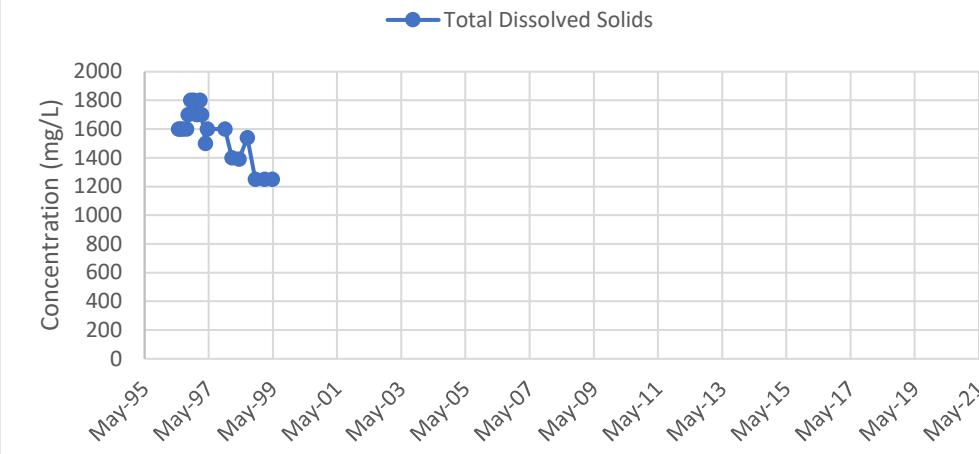


Figure 26c. Field pH

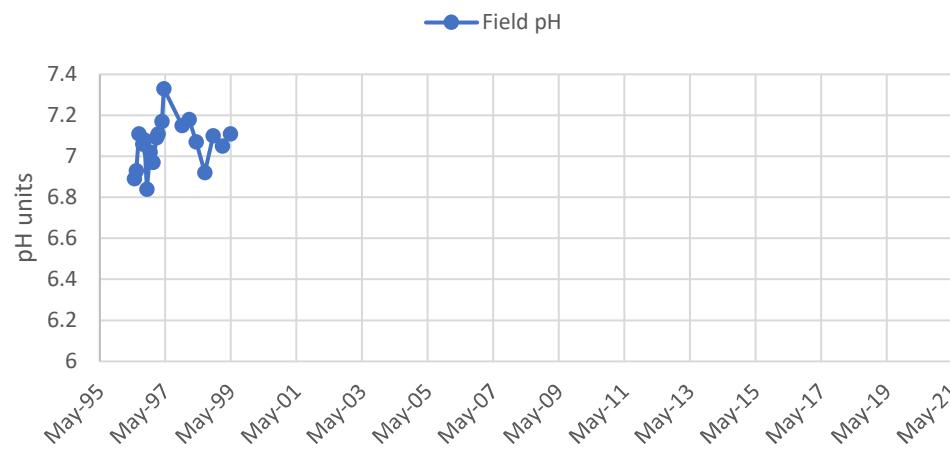
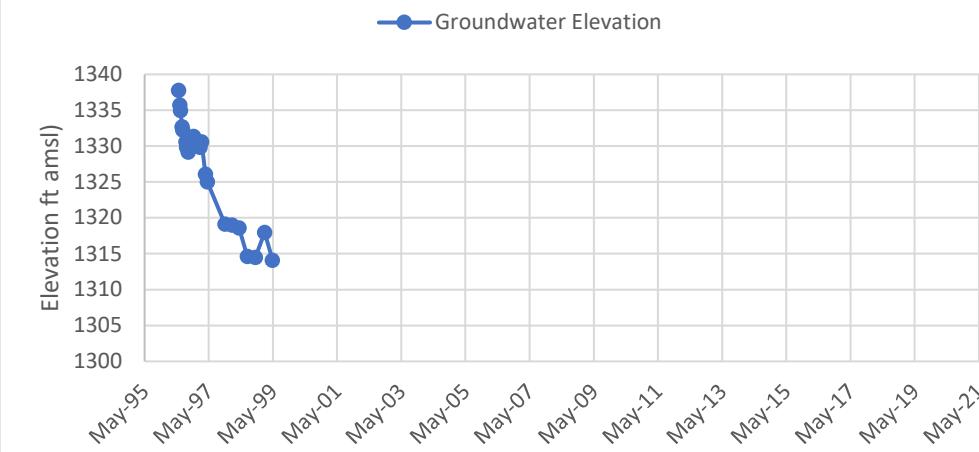


Figure 26d. Groundwater Elevation



Notes:

M32-UBF has been historically dry

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M33-UBF QUARTERLY CONCENTRATION GRAPHS

Figure 27a. Sulfate

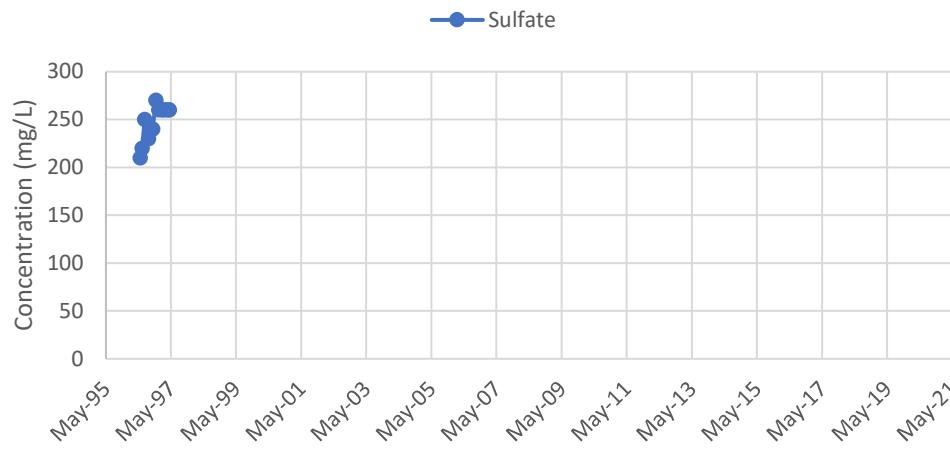


Figure 27b. Total Dissolved Solids

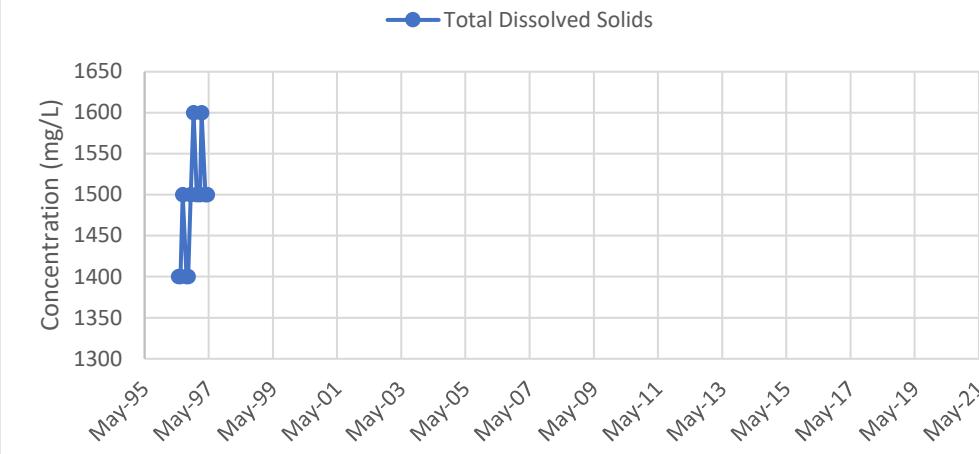


Figure 27c. Field pH

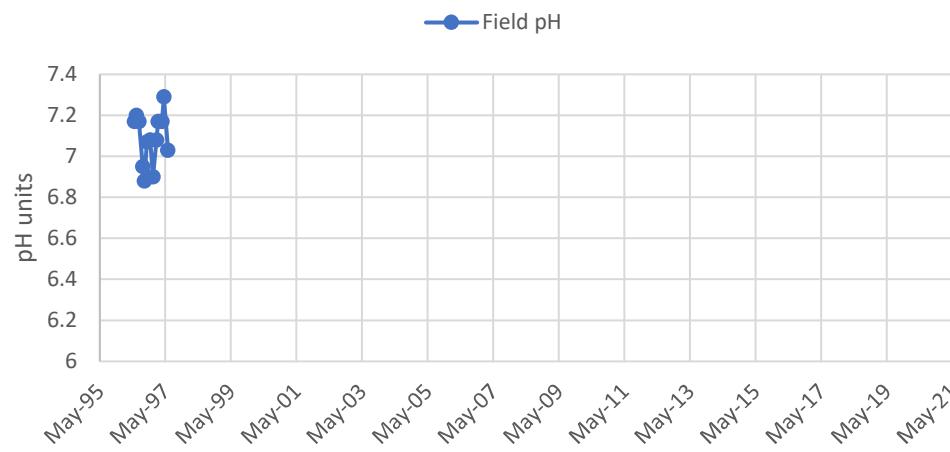
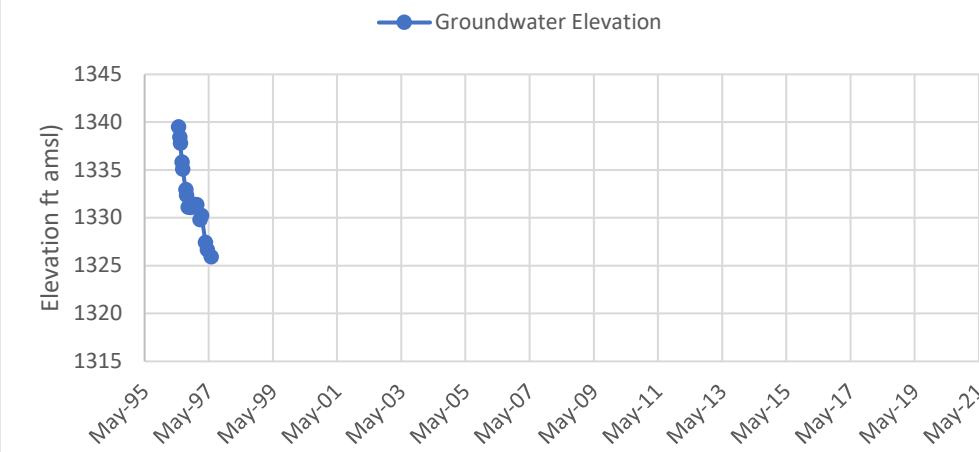


Figure 27d. Groundwater Elevation



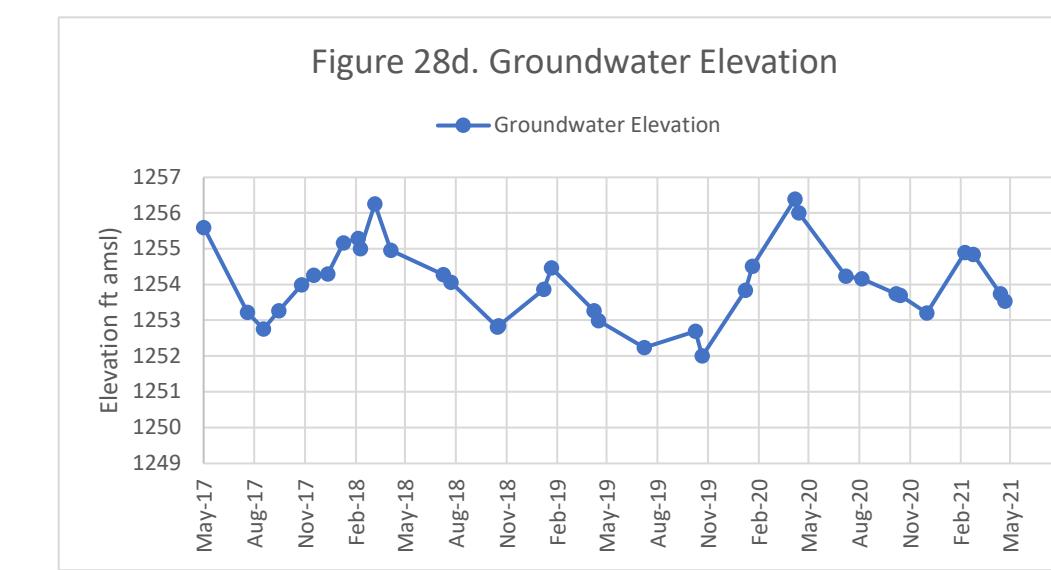
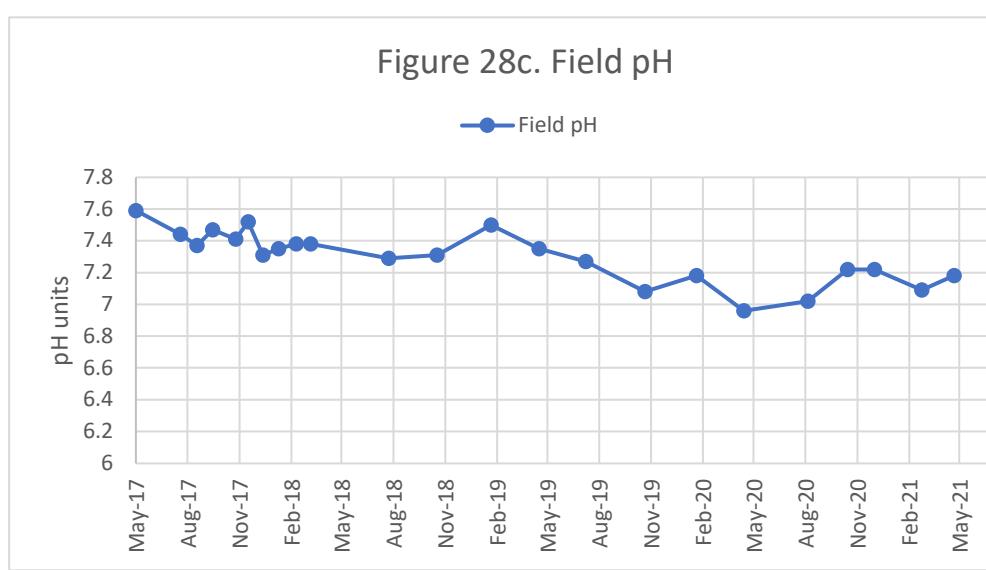
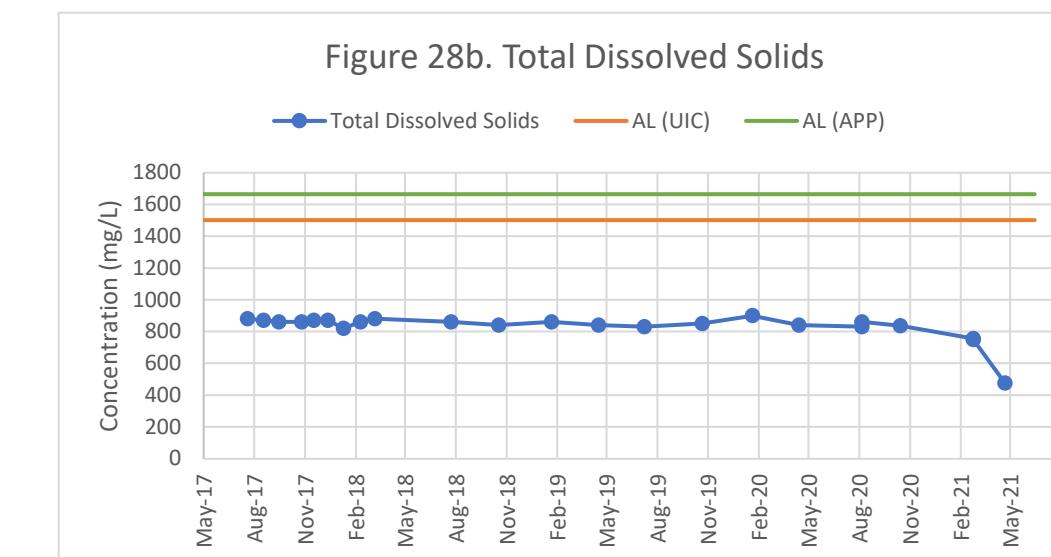
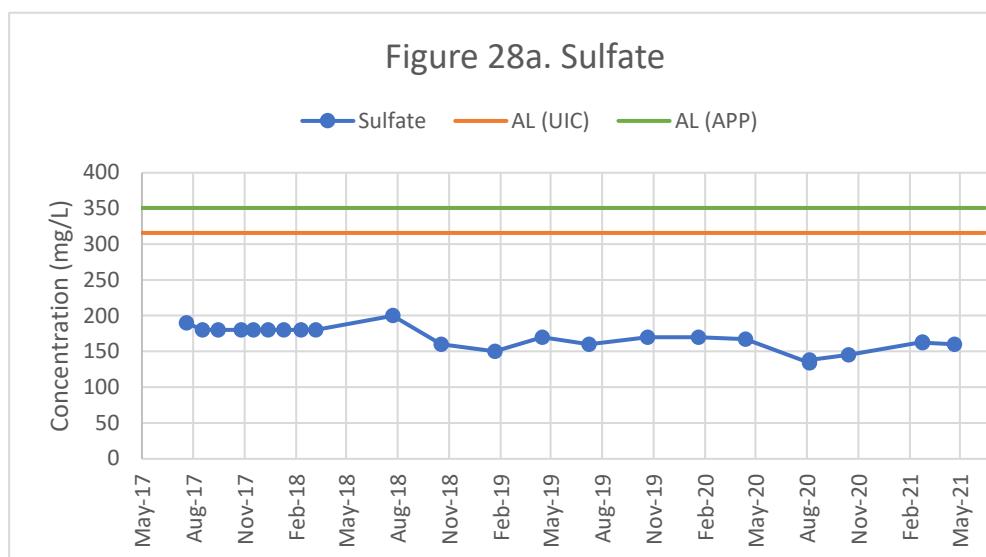
Notes:

M32-UBF has been historically dry

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

M52-UBF QUARTERLY CONCENTRATION GRAPHS



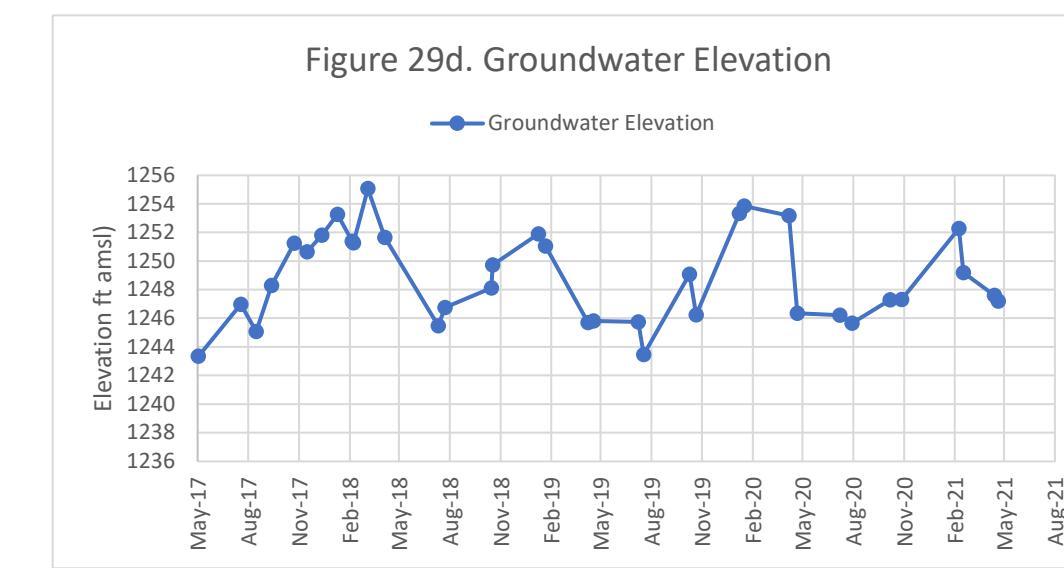
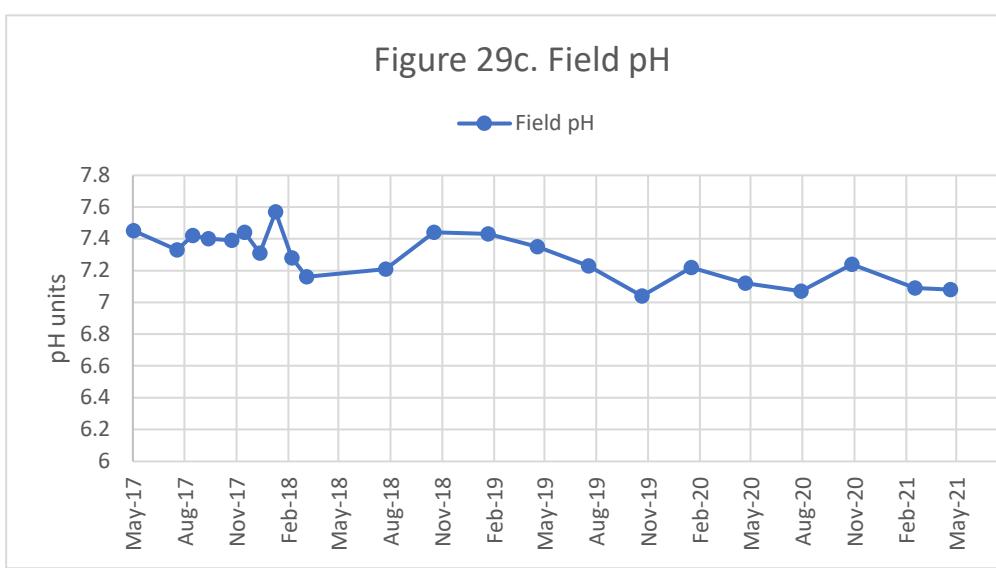
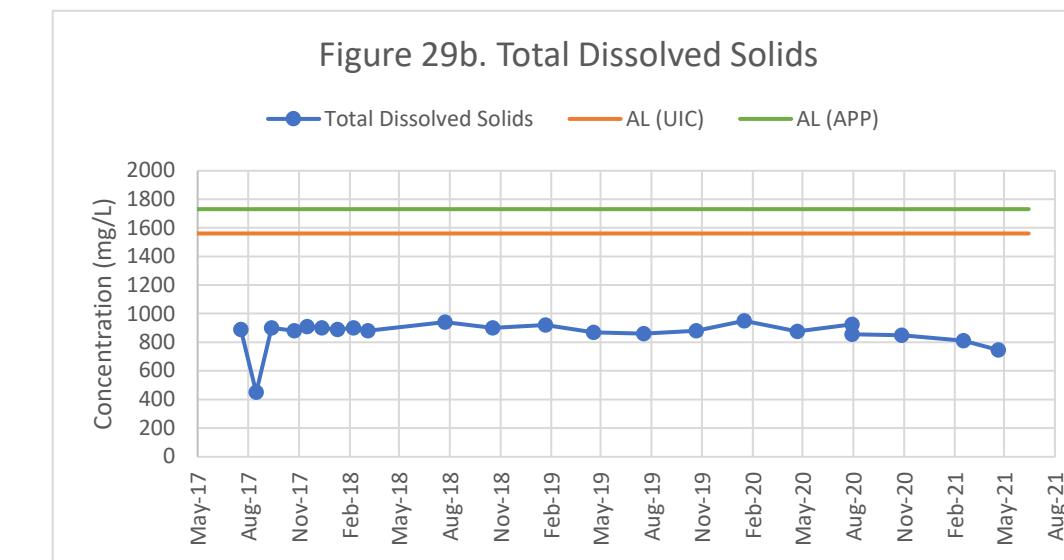
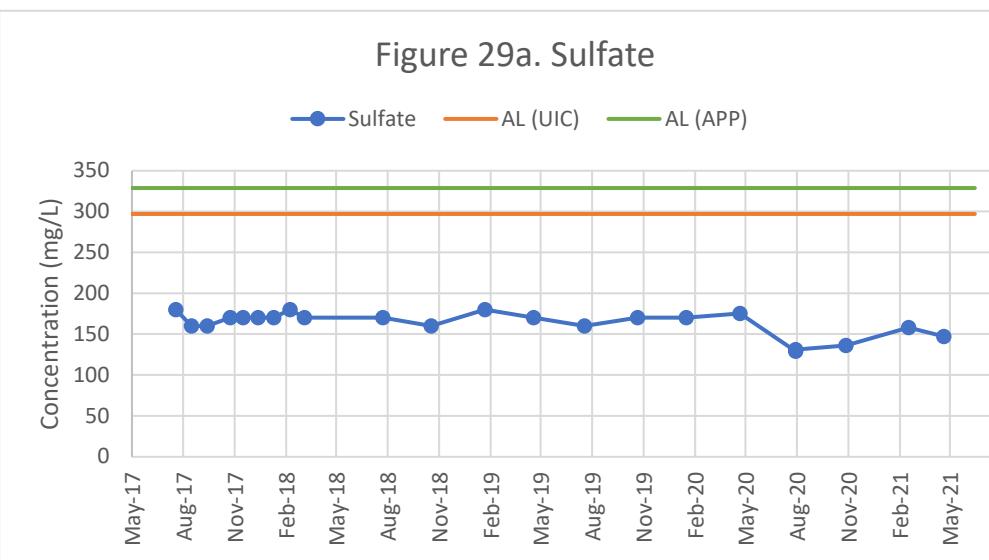
Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M54-LBF QUARTERLY CONCENTRATION GRAPHS



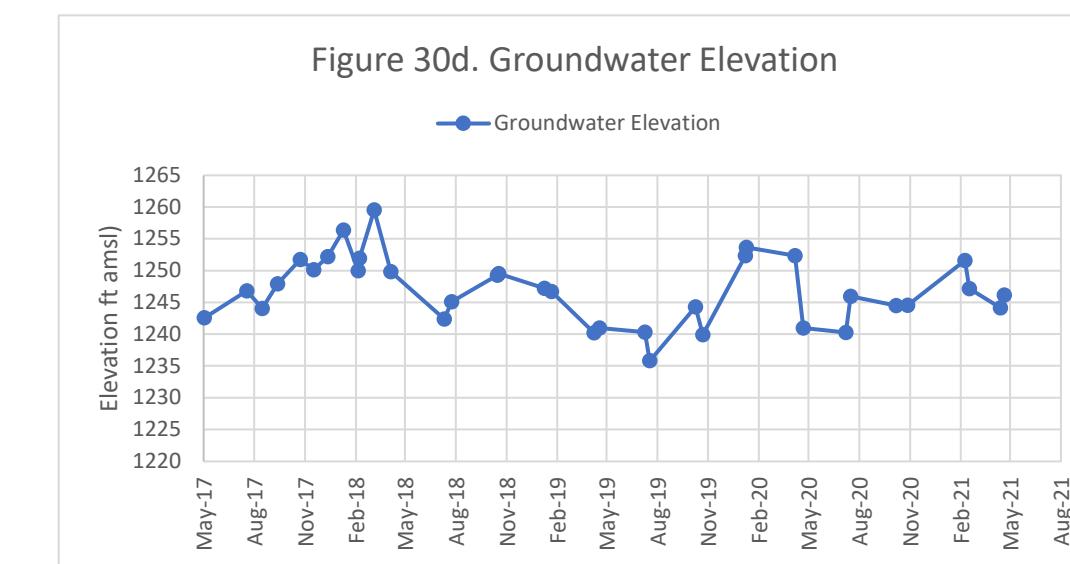
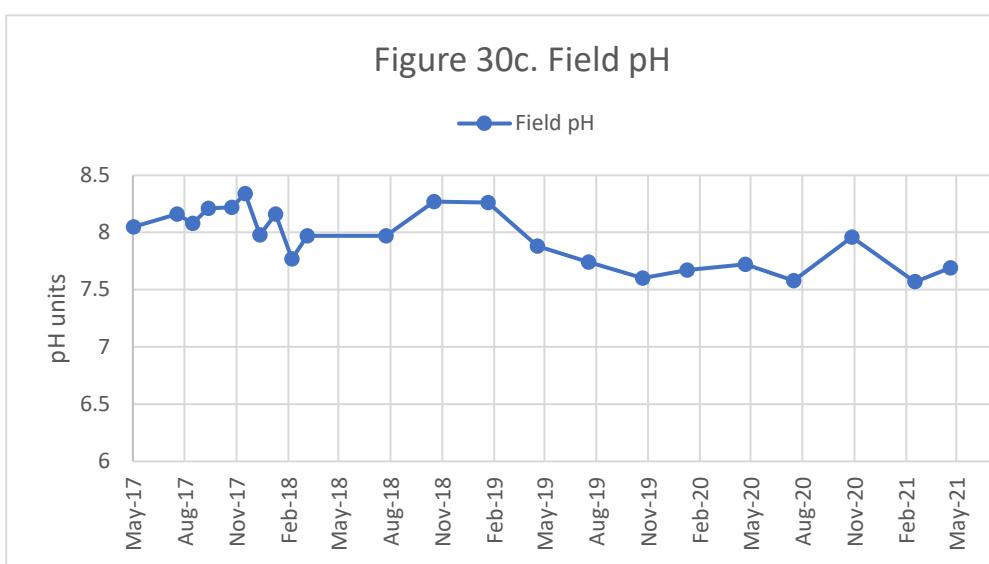
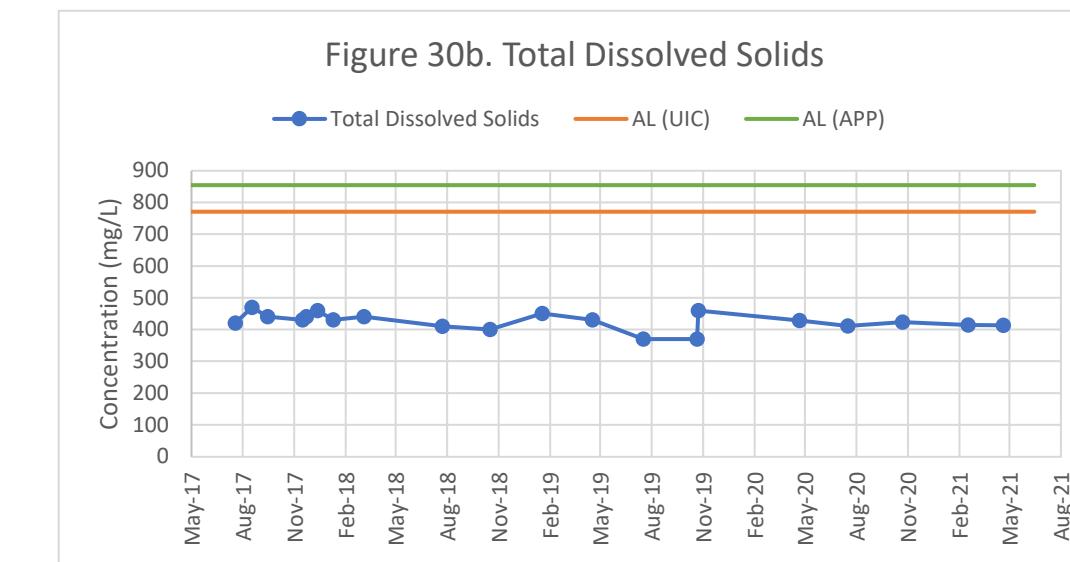
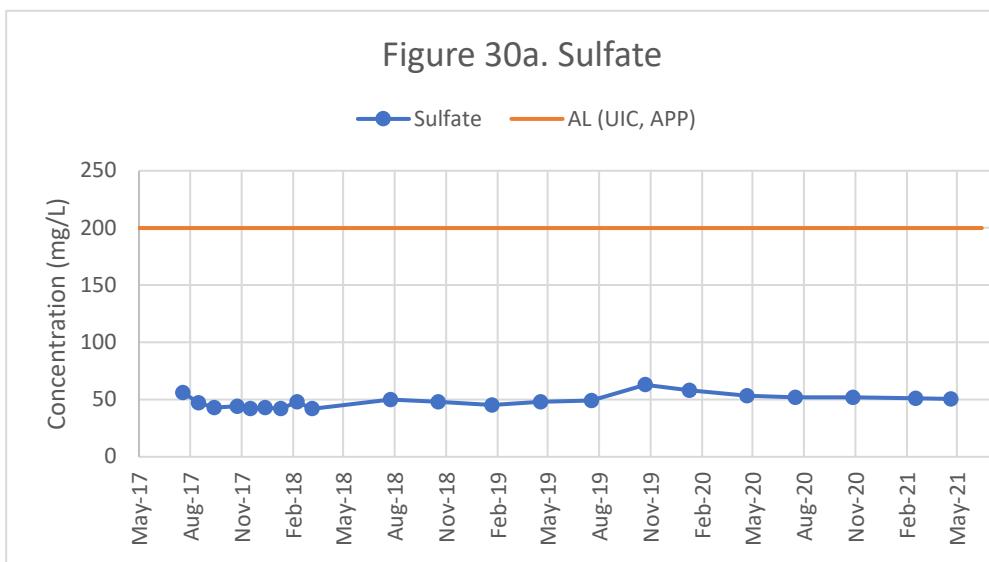
Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M54-O QUARTERLY CONCENTRATION GRAPHS



Notes:

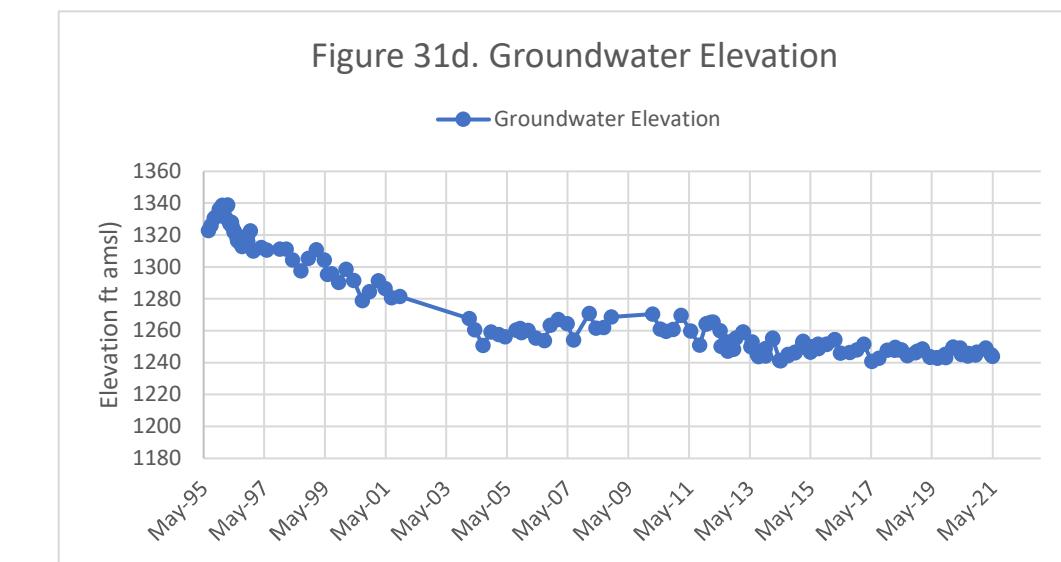
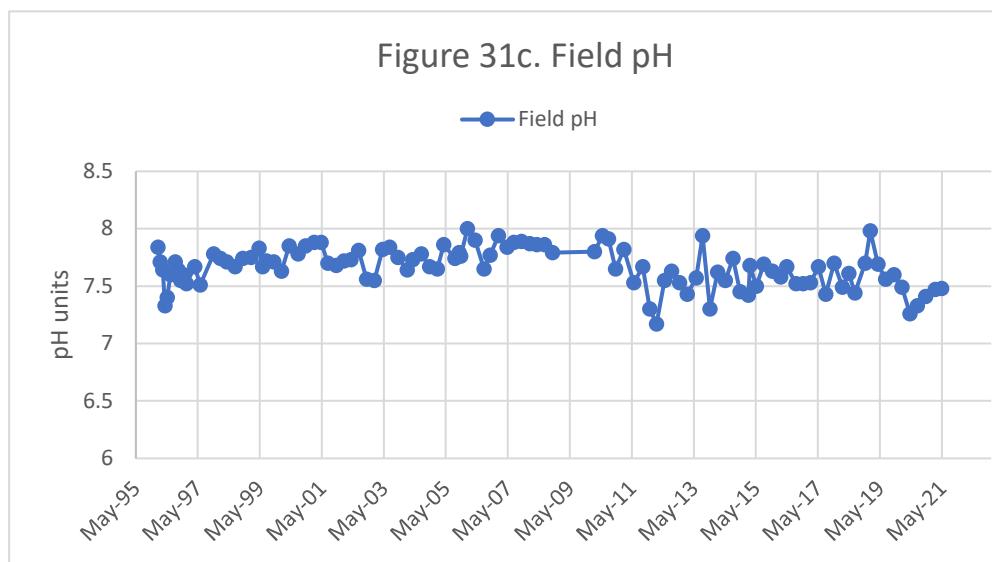
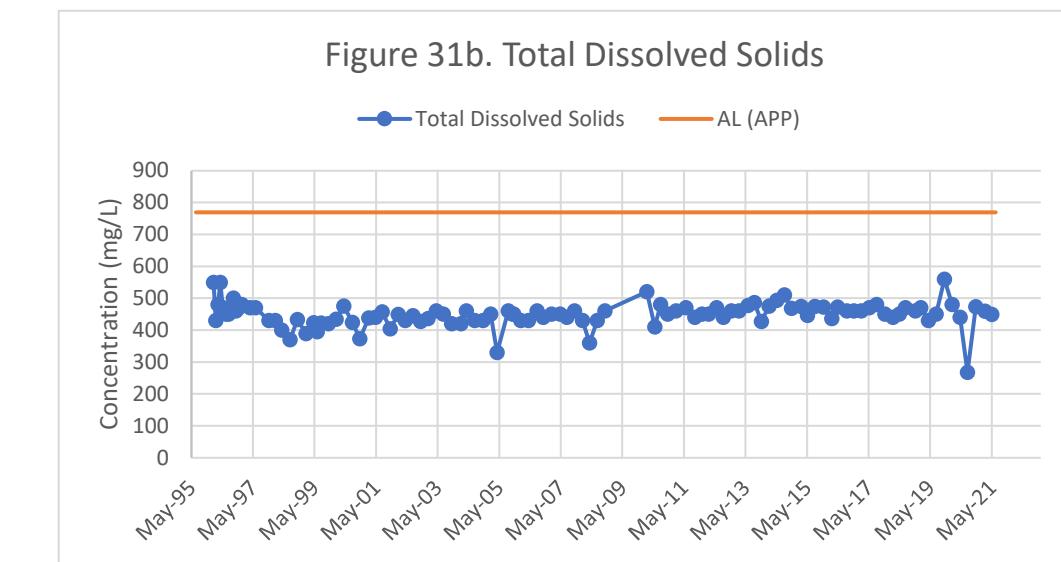
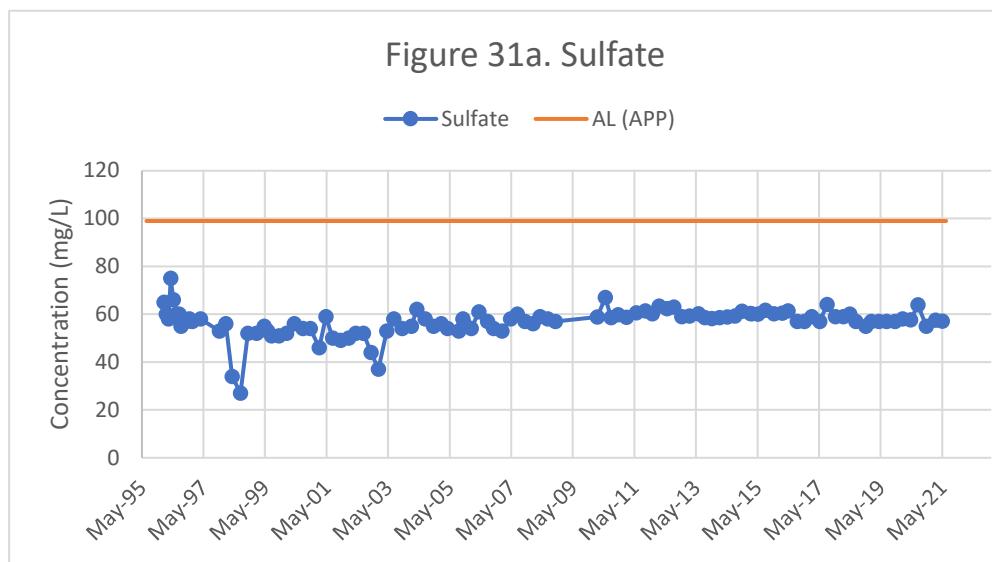
Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

O19-GL QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

O49-GL(R) QUARTERLY CONCENTRATION GRAPHS

Figure 32a. Sulfate

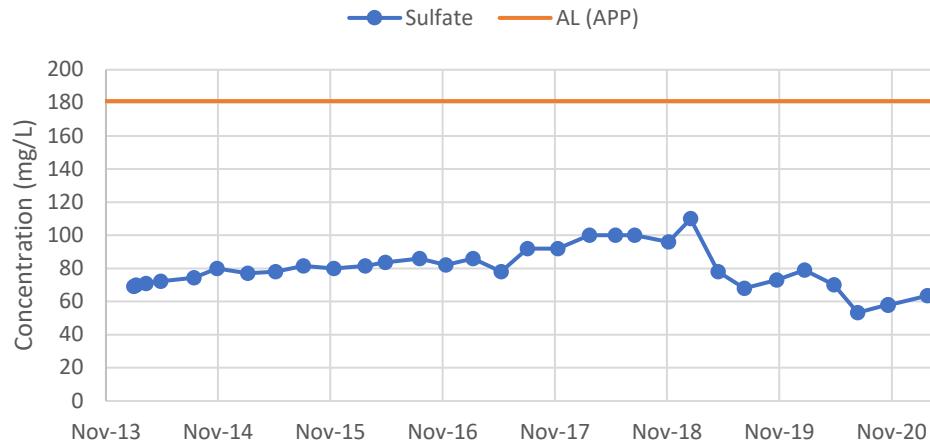


Figure 32b. Total Dissolved Solids

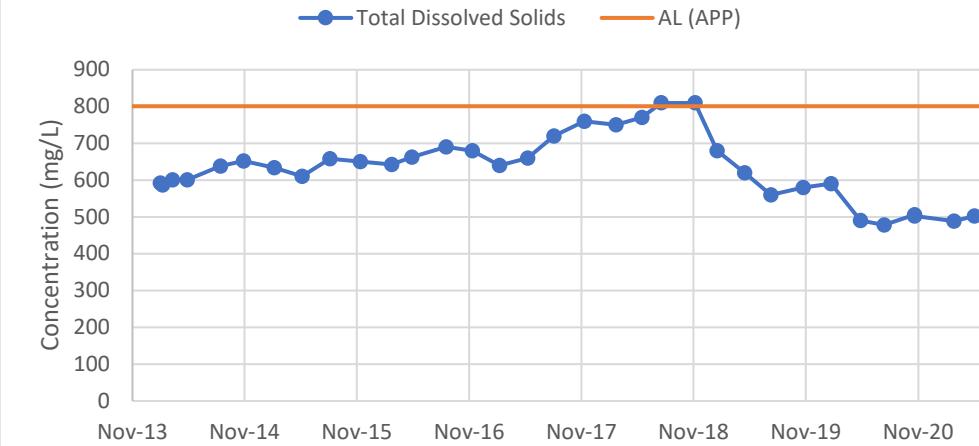


Figure 32c. Field pH

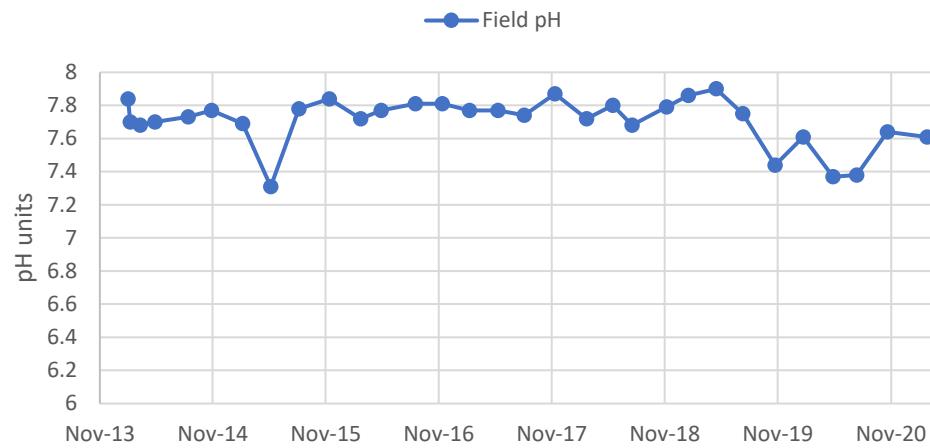
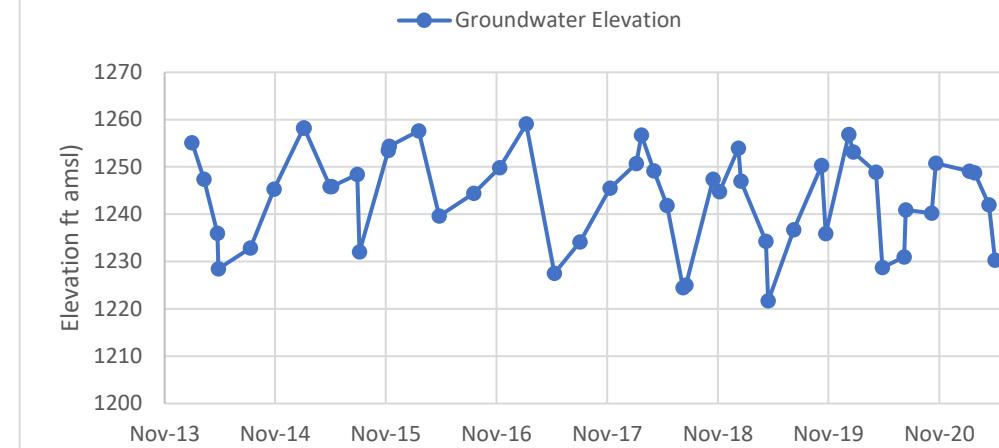


Figure 32d. Groundwater Elevation

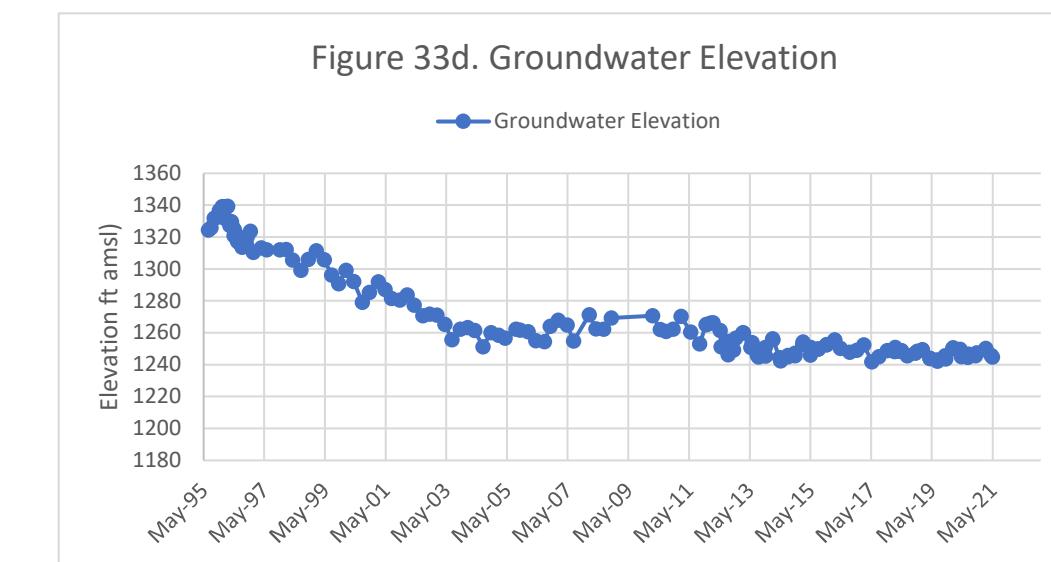
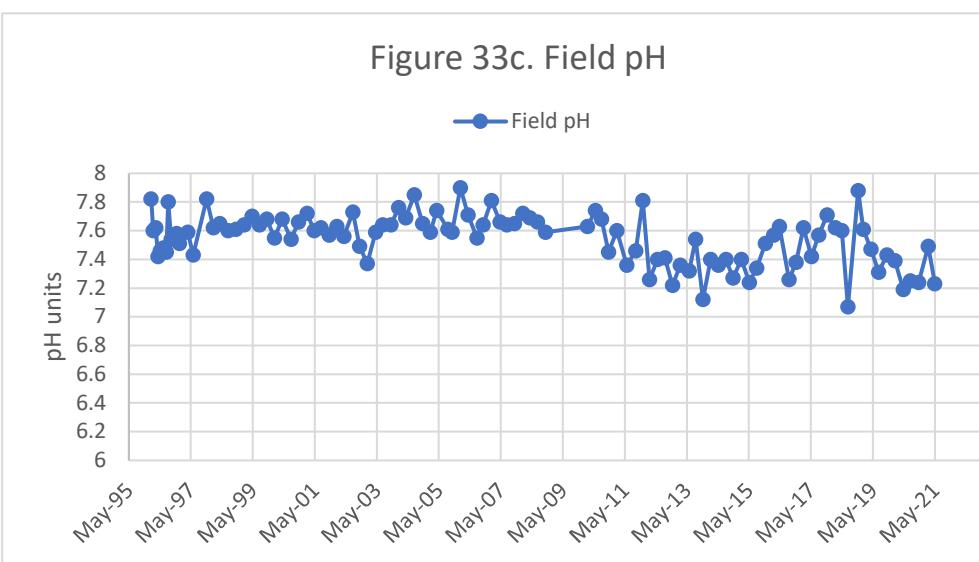
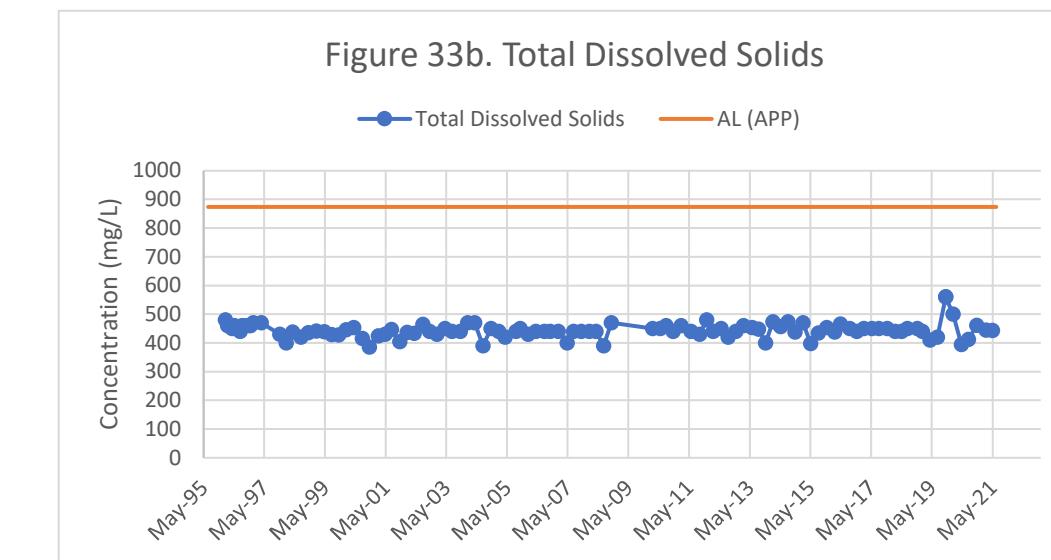
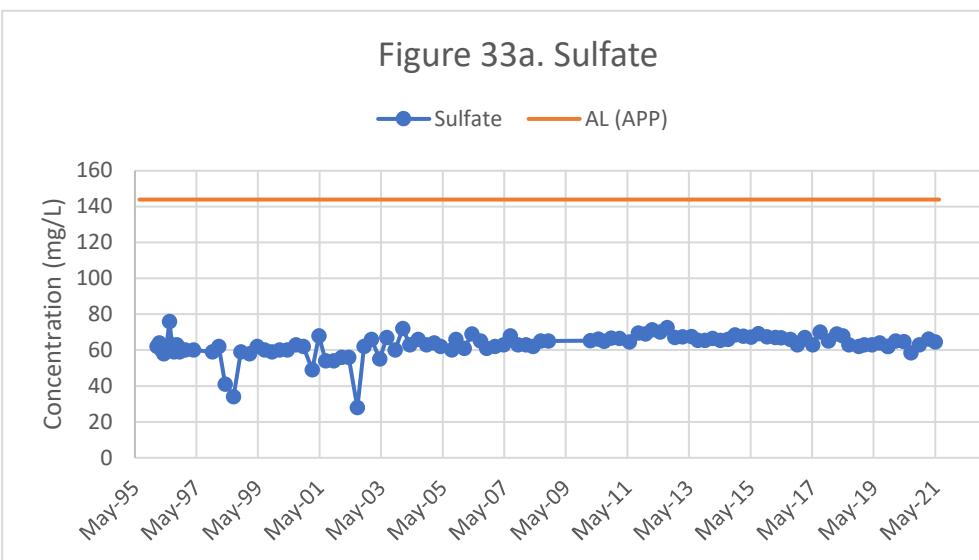


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

P19-1-O QUARTERLY CONCENTRATION GRAPHS

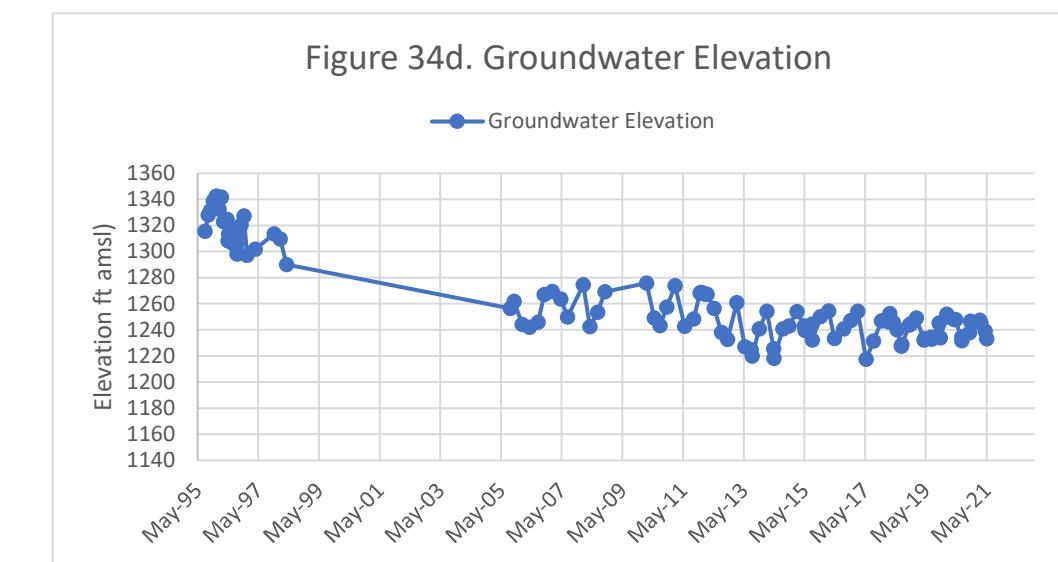
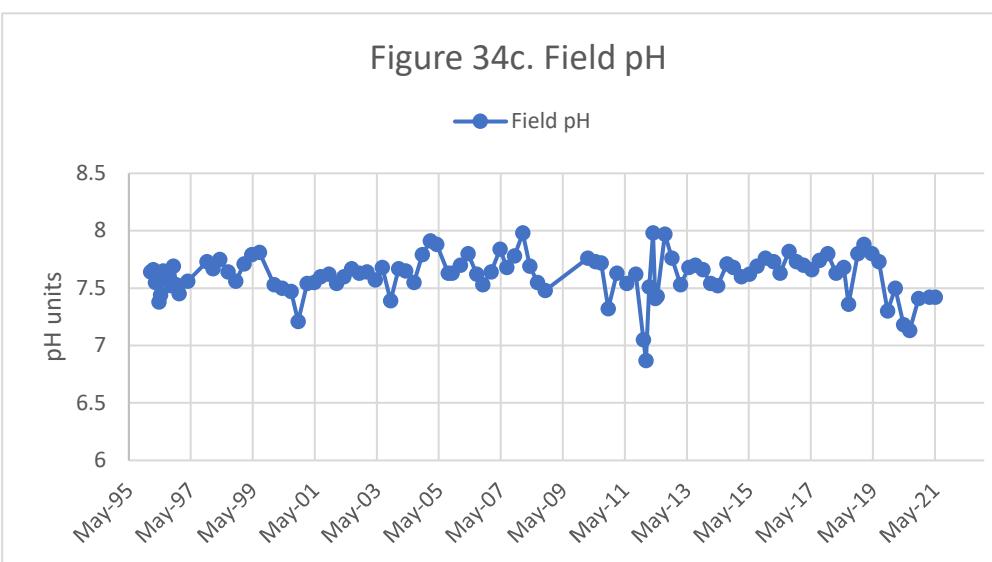
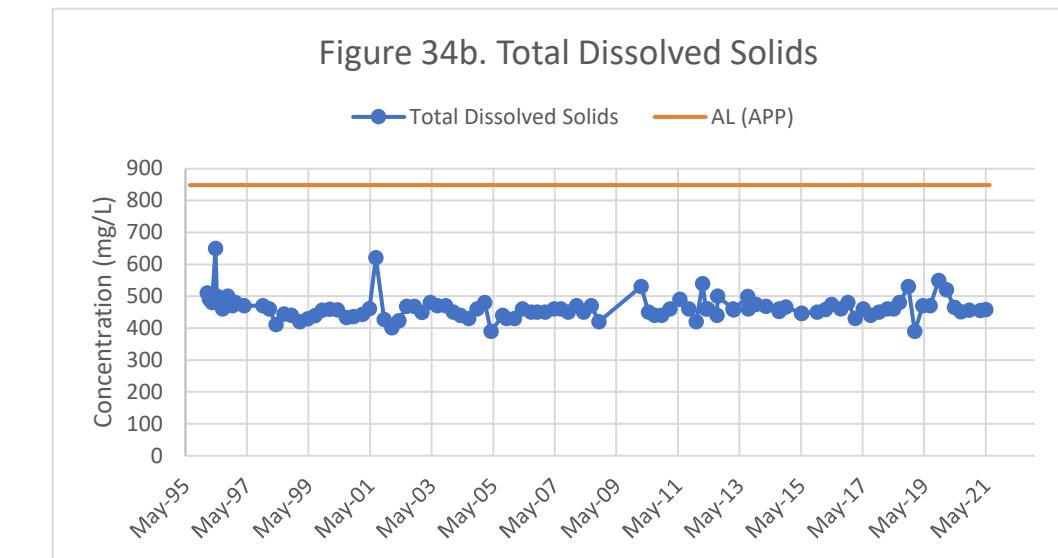
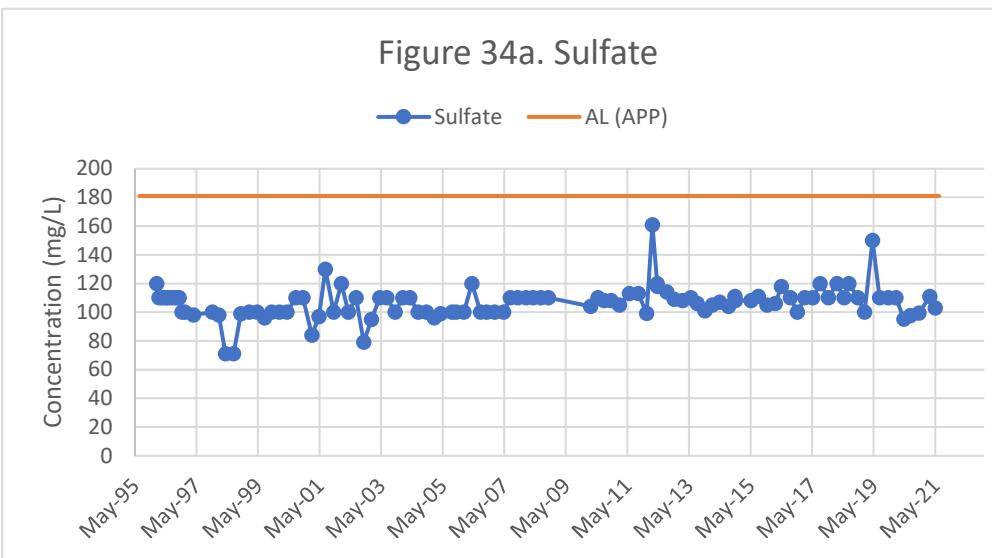


Notes:

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

P49-O QUARTERLY CONCENTRATION GRAPHS



Notes:

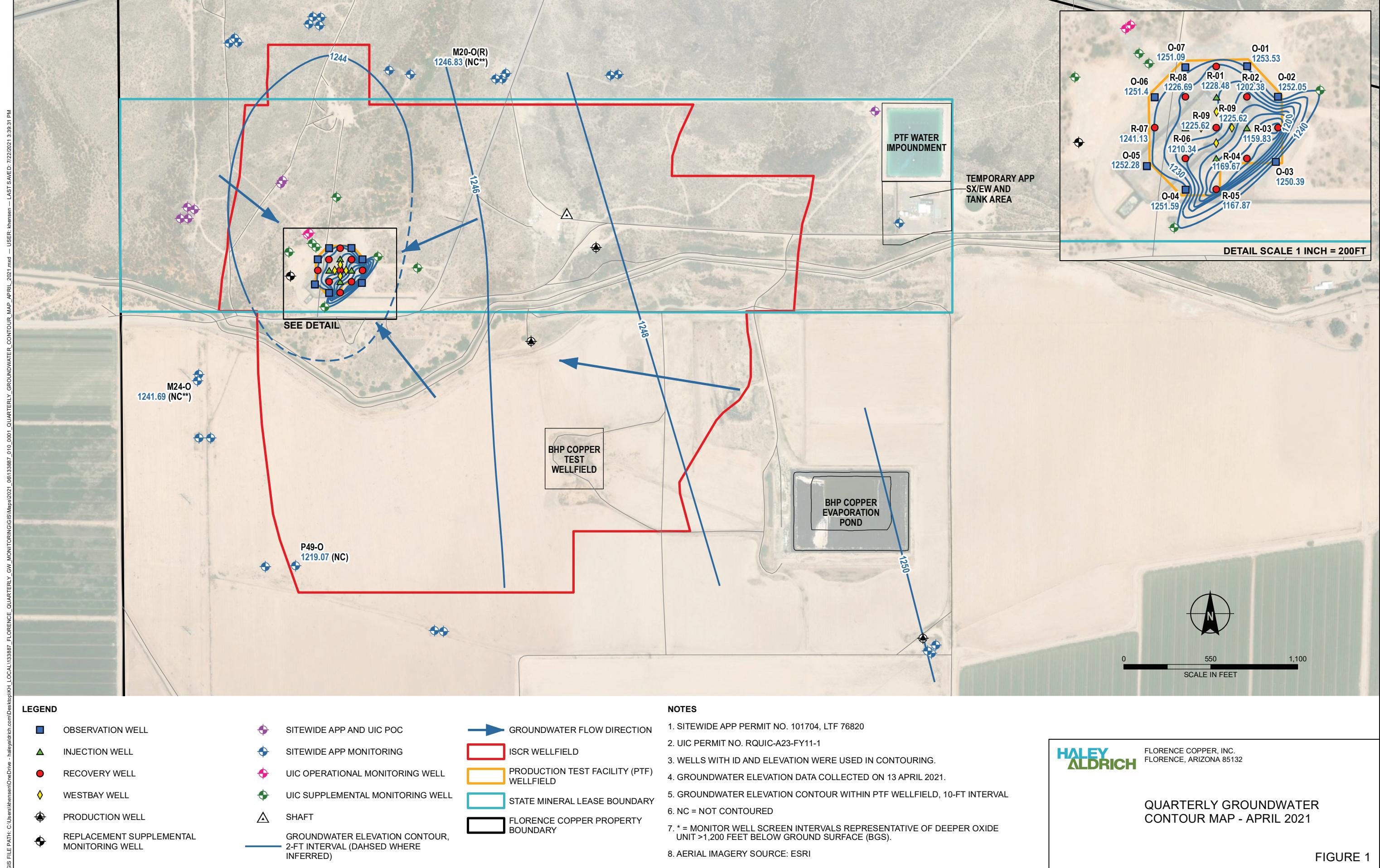
Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

AL = Alert level

APP = Aquifer Protection Permit No. P-101704

ATTACHMENT 8

Quarterly Groundwater Elevation Contour Map



ATTACHMENT 9

Table of Wells in the Discharge Impact Area

Q2 2021 MONITORING WELLS WITHIN

THE DISCHARGE IMPACT AREA

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. Monitoring Wells Within the Discharge Impact Area

Well ID	Latitude	Longitude	Well Depth (feet)
M54-LBF	33°03'7.07"N	111°26'9.29"W	629
M54-O	33°03'6.91"N	111°26'9.22"W	1199
M55-UBF	33°03'1.99"N	111°26'6.18"W	261
M56-LBF	33°03'2.21"N	111°26'6.44"W	340
M57-O	33°03'1.88"N	111°26'8.39"W	1200
M57R-O	33°03'0.31"N	111°26'8.16"W	1200
M58-O	33°03'5.20"N	111°26'4.94"W	1200
M59-O	33°03'1.58"N	111°26'2.25"W	1200
M60-O	33°02'58.70"N	111°26'5.78"W	1201
M61-LBF	33°03'0.85"N	111°25'58.92"W	630
MW-01-LBF	33°03'02.9442"N	111°26'07.1046"W	440
MW-01-O	33°03'03.045"N	111°26'06.9786"W	1200
P49-O	33°02'42"N	111°26'07"W	1242

**Q2 2021 WATER LEVELS WITHIN
THE DISCHARGE IMPACT AREA**

FLORENCE COPPER INC.
FLORENCE, ARIZONA

Table 2. Water Levels Within the Discharge Impact Area

Well ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M54-LBF	04/13/2021	234.33	TOC	1481.92	1247.59
M54-LBF	04/20/2021	234.73	TOC	1481.92	1247.19
M54-O	04/13/2021	238.33	TOC	1482.47	1244.14
M54-O	04/20/2021	236.34	TOC	1482.47	1246.13
M55-UBF	04/13/2021	228.78	TOC	1479.14	1250.36
M55-UBF	04/19/2021	228.70	TOC	1479.14	1250.44
M55-UBF	05/17/2021	229.07	TOC	1479.14	1250.07
M56-LBF	04/13/2021	231.98	TOC	1478.65	1246.67
M56-LBF	04/19/2021	231.01	TOC	1478.65	1247.64
M56-LBF	05/17/2021	231.63	TOC	1478.65	1247.02
M57-O	04/13/2021	236.84	TOC	1478.71	1241.87
M57-O	04/15/2021	234.44	TOC	1478.71	1244.27
M57R-O	04/13/2021	235.54	TOC	1478.29	1242.75
M57R-O	04/20/2021	234.55	TOC	1478.29	1243.74
M57R-O	06/01/2021	243.20	TOC	1478.29	1235.09
M58-O	04/13/2021	237.10	TOC	1482.08	1244.98
M58-O	04/19/2021	234.52	TOC	1482.08	1247.56
M58-O	05/17/2021	235.21	TOC	1482.08	1246.87
M59-O	04/13/2021	239.08	TOC	1480.19	1241.11
M59-O	04/14/2021	236.77	TOC	1480.19	1243.42
M59-O	05/19/2021	237.22	TOC	1480.19	1242.97
M59-O	06/01/2021	245.98	TOC	1480.19	1234.21
M60-O	04/13/2021	233.38	TOC	1477.36	1243.98
M60-O	04/14/2021	232.15	TOC	1477.36	1245.21
M60-O	05/18/2021	231.69	TOC	1477.36	1245.67
M60-O	06/14/2021	233.95	TOC	1477.36	1243.41
M61-LBF	04/13/2021	236.91	TOC	1480.78	1243.87
M61-LBF	04/20/2021	231.70	TOC	1480.78	1249.08
MW-01-LBF	04/13/2021	231.82	TOC	1478.92	1247.10
MW-01-LBF	04/15/2021	231.70	TOC	1478.92	1247.22
MW-01-LBF	04/21/2021	231.75	TOC	1478.92	1247.17
MW-01-O	04/13/2021	236.40	TOC	1479.07	1242.67
MW-01-O	04/15/2021	234.63	TOC	1479.07	1244.44
MW-01-O	04/21/2021	235.68	TOC	1479.07	1243.39
MW-01-O	05/17/2021	233.69	TOC	1479.07	1245.38
P49-O	04/13/2021	224.05	TOM	1463.12	1239.07
P49-O	05/03/2021	230.10	TOM	1463.12	1233.02
Status of Local Production Wells					
BIA-10	4/13/2021			Not Pumping	
PW2-1	4/13/2021			Pumping	

Notes:

amsl = above mean sea level

TOC= top of casing

TOS = top of stickup

TOM = top of monument

ATTACHMENT 10

10A – Groundwater Sampling Results for POC Wells
10B – Summary of Quarterly Water Levels

ATTACHMENT 10A

Groundwater Sampling Results for POC Wells

TECHNICAL MEMORANDUM

28 July 2021
File No. 133887-010

TO: Florence Copper Inc.
Brent Berg
General Manager

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G.
Senior Technical Specialist
Mark Nicholls, R.G.
Lead Hydrogeologist

SUBJECT: Florence Copper Project, Quarterly Compliance Monitoring Report
Aquifer Protection Permit (APP), Second Quarter 2021



Haley & Aldrich, Inc. has prepared this memorandum to present the results of the quarterly compliance groundwater monitoring conducted during the second quarter (Q2) 2021 at the Florence Copper Project. The Florence Copper Project is subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

APP Covering the 1997-98 BHP Pilot Facilities and Future Operations:

- ADEQ APP No. P-101704 (LTF 88973) dated 30 April 2021.

UIC Permit Covering the Current Production Test Facility:

- USEPA Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY11-1 dated 20 December 2016.

This report presents the results of the Q2 2021 groundwater monitoring activities required by the APP.

SAMPLING ACTIVITIES

During Q2 2021, monitoring was conducted at 32 point of compliance wells. Water levels were collected on 13 April 2021, and quarterly groundwater sampling was conducted between 14 April and 14 June 2021. Groundwater sampling and analysis was conducted in accordance with the requirements of Section 2.5.3 of APP No. P-101704.

The majority of the monitoring wells are equipped with low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the APP. Wells M14-GL, M16-GU(R), M20-O(R), M22-O, M24-O, O49-GL(R), and P49-O were equipped with stainless steel electric submersible pumps. These wells were sampled by purging a minimum of three borehole volumes, except for well M20-O(R), which was purged dry for 2 consecutive days and allowed to recharge prior to sampling. No other modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, maintained at 4 degrees Celsius (°C) ± 2°C, and transported under chain of custody to Pace Analytical for analysis. Samples were analyzed for the quarterly (Level 1) and annual (Level 2) monitoring parameters listed in Section 4.0, Tables 13 and 14 of the APP. Sample containers collected for radiological parameter analysis were labelled and transported under chain of custody directly to Radiation Safety Engineering, Inc., a subcontractor to the primary laboratory. Note that uranium activity and adjusted gross alpha are analyzed and reported only when gross alpha results exceed 12 picocuries per liter.

Monthly monitoring of well M4-O, which began in December 2020, was continued during Q2 2021 due to an APP AL exceedance of magnesium confirmed in Q4 2020. Monthly samples collected from M4-O were analyzed for the quarterly (Level 1) monitoring parameters as discussed further below. Well M4-O is an up gradient well, and the observed exceedance is not the result of mineral production operations.

RESULTS

The results of the Q2 2021 monitoring event are presented in Tables 1 through 6 as follows:

- Table 1 – Q2 2021 Field Parameters;¹
- Table 2 – Q2 2021 Quarterly (Level 1) Analytical Parameters; and
- Table 3 – Q2 2021 Inorganic Parameters;
- Table 4 – Q2 2021 Radiochemical Parameters;
- Table 5 – Q2 2021 Organic Parameters; and
- Table 6 – Q2 2021 Trace Metals.

The Q2 2021 results were compared to the ALs and AQLs listed in the applicable tables in Section 4.0 of APP No. P-101704.

No AQL exceedances occurred during Q2 2021. There were no exceedances of ALs during Q2 2021, with the exception of magnesium in M4-O. The magnesium exceedances in M4-O are discussed further below under the Contingency Sampling Plan section.

A quality assurance/quality control summary of the Q2 2021 data is provided in Appendix A.

¹ Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the Temporary APP or UIC permit and therefore is not reported.

CONTINGENCY SAMPLING PLANS

As described above, monthly monitoring was conducted at well M4-O during Q2 2021, as required by Section 2.6.2.5.1 of the APP.

Well M4-O

Well M4-O had a confirmed magnesium APP AL exceedance in Q4 2020. During Q4 2020, Florence Copper initiated monthly sampling of the quarterly compliance monitoring parameters. This was consistent with Section 2.6.2.3.2 of the previous APP, which described the contingency action of an exceedance of a parameter with an Aquifer Water Quality Standard (AWQS). Magnesium, an indicator parameter, has no AWQS.

With the APP amendment on 8 December 2020, which began governance over groundwater monitoring in Q1 2021, the verified exceedance of indicator parameters results in an increased frequency of monitoring under Section 2.6.2.5.1. Sampling of M4-O has continued monthly sampling since Q4 2020.

During Q2 2021, magnesium concentrations in the monthly M4-O sampling events continued to exceed the APP alert level (AL) of 15 milligrams per liter (mg/L), and ranged from 23.9 to 26.7 mg/L. All other parameters were below their respective ALs in each sample. Based on previous correspondence with ADEQ, notification of the monthly monitoring results is solely reported in the quarterly compliance groundwater monitoring report. The exceedance of magnesium is not related to solutions migrating from the wellfield. Well M4-O is located upgradient and over 3,500 feet from the operational wellfield, and hydraulic control was always maintained. However, per Section 2.6.2.5.1, monthly monitoring of the quarterly compliance monitoring parameters at M4-O will continue through Q3 2021.

Attachments:

- Table 1 – Q2 2021 Field Parameters
- Table 2 – Q2 2021 Quarterly (Level 1) Analytical Parameters
- Table 3 – Q2 2021 Inorganic Parameters
- Table 4 – Q2 2021 Radiochemical Parameters
- Table 5 – Q2 2021 Organic Parameters
- Table 6 – Q2 2021 Trace Metals
- Appendix A – Data Quality Assurance/Quality Control Summary Memorandum

TABLES

TABLE 1
Q2 2021 FIELD PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	Specific Conductance, Field μmhos/cm
M1-GL	05/03/2021	22.8	73.0	7.29	1,350
M2-GU	04/22/2021	20.7	69.3	7.05	1,786
M3-GL	04/22/2021	22.7	72.9	7.10	1,506
M4-O	04/22/2021	21.2	70.2	7.04	1,692
M4-O ⁽¹⁾	05/18/2021	22.9	73.2	7.08	1,674
M4-O ⁽¹⁾	06/14/2021	24.7	76.5	7.07	1,711
M6-GU	05/04/2021	26.8	80.2	7.10	761
M7-GL	05/04/2021	27.2	81.0	9.14	529
M8-O	05/04/2021	24.7	76.5	9.14	711
M14-GL	05/06/2021	27.2	81.0	8.42	836
M14-GL ⁽²⁾	05/12/2021	27.2	81.0	8.31	800
M15-GU	05/06/2021	23.4	74.1	7.40	1,500
M15-GU ⁽²⁾	05/12/2021	25.1	77.2	7.29	1,442
M16-GU(R)	04/29/2021	24.0	75.2	7.19	1,730
M17-GL	05/05/2021	24.5	76.1	8.77	782
M18-GU	05/03/2021	22.4	72.3	7.10	2,020
M19-LBF	05/06/2021	25.8	78.4	7.75	828
M19-LBF ⁽²⁾	05/11/2021	26.3	79.3	7.71	816
M20-O(R)	04/21/2021	23.7	74.7	7.13	831
M20-O(R) ⁽²⁾	05/19/2021	24.4	75.9	7.18	811
M21-UBF	05/11/2021	23.8	74.8	7.09	1,750
M22-O	04/22/2021	28.3	82.9	8.06	815
M23-UBF	05/06/2021	24.4	75.9	7.05	2,046
M23-UBF ⁽²⁾	05/12/2021	23.7	74.7	6.84	1,952
M24-O	05/05/2021	30.3	86.5	7.81	1,860
M25-UBF	05/05/2021	23.6	74.5	6.98	2,537
M26-O	04/29/2021	23.5	74.3	8.81	566
M27-LBF	04/27/2021	23.6	74.5	7.33	1,835
M28-LBF	04/27/2021	24.3	75.7	8.92	662
M29-UBF	04/28/2021	23.7	74.7	7.09	1,883
M30-O	05/19/2021	25.9	78.6	7.38	901
M31-LBF	05/11/2021	26.3	79.3	7.28	1,392
M52-UBF	04/21/2021	23.9	75.0	7.18	1,506
M54-LBF	04/20/2021	24.5	76.1	7.08	1,607
M54-O	04/20/2021	24.6	76.3	7.69	812
O19-GL	04/29/2021	24.1	75.4	7.48	908
O49-GL(R)	05/03/2021	26.0	78.8	7.60	963
P19-1-O	04/29/2021	24.3	75.7	7.23	837
P49-O	05/03/2021	27.9	82.2	7.42	853

Notes:

(1) Increased frequency monitoring conducted on 5/19/2021 and 6/14/2021

(2) Partial resampling due to shipping or laboratory error

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

μmhos/cm = micromhos per centimeter

TABLE 2
Q2 2021 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved		Sulfate		Fluoride			Total Dissolved Solids (TDS)	
			Concentration	Alert Level	Concentration	Alert Level	Concentration	Alert Level	Aquifer Quality Limit	Concentration	Alert Level
M1-GL	05/03/2021	Primary	22.2	31	117	184.2	0.58	3.2	4.0	706	1028
M2-GU	04/22/2021	Primary	34.1	39	198	275	0.68	3.2	4.0	985	1496
M3-GL	04/22/2021	Primary	28.7	36	156	187	0.54	3.2	4.0	805	1157
M4-O	04/22/2021	Primary	26.7	15	174	405	0.75	--	5.1	975	1072
M4-O ⁽¹⁾	05/18/2021	Primary	23.9	15	162	405	0.78	--	5.1	865	1072
M4-O ⁽¹⁾	06/14/2021	Primary	24.0	15	157	405	0.74	--	5.1	855	1072
M6-GU	05/04/2021	Primary	2.3	44	50.3	86	0.56	3.2	4.0	354	620
M7-GL	05/04/2021	Primary	0.11	1	5.2	82	0.82	3.2	4.0	252	464
M8-O	05/04/2021	Primary	0.12	1	54.5	122	1.9	3.6	4.0	361	609
M8-O	05/04/2021	Duplicate	0.10	1	63.6	122	1.9	3.6	4.0	369	609
M14-GL	05/12/2021	Primary	2.2	23	56.0	144	0.52	3.2	4.0	408	874
M15-GU	05/12/2021	Primary	26.7	44	86.3	126	0.43	3.2	4.0	880	1359
M16-GU(R)	04/29/2021	Primary	30.2	52	162	248	0.40	3.2	4.0	855	1635
M17-GL	05/05/2021	Primary	4.5	9.3	81.5	209	0.55	3.2	4.0	396	831
M18-GU	05/03/2021	Primary	35.4	36	201	288	0.66	3.2	4.0	1,040	1323
M19-LBF	05/11/2021	Primary	8.7	21	28.6	89	0.27	3.2	4.0	385	794
M20-O(R)	04/21/2021	Primary	9.0	14	64.2	112	0.72	3.2	4.0	780	809
M20-O(R) ⁽²⁾	05/19/2021	Primary	9.5	14	61.0	112	0.68	3.2	4.0	472	809
M21-UBF	05/11/2021	Primary	29.4	87	182	487	0.67	3.2	4.0	930	2867
M21-UBF	05/11/2021	Duplicate	30.6	87	183	487	0.66	3.2	4.0	945	2867
M22-O	04/22/2021	Primary	6.5	8.6	54.4	86	0.60	3.2	4.0	424	1094
M23-UBF	05/12/2021	Primary	32.1	69	221	411	0.70	3.2	4.0	1,180	2392
M24-O	05/05/2021	Primary	9.3	19	637	1364	1.0	3.2	4.0	1,120	2363
M24-O	05/05/2021	Duplicate	9.7	19	647	1364	1.0	3.2	4.0	1,100	2363
M25-UBF	05/05/2021	Primary	46.8	76	242	387	0.56	3.2	4.0	1,210	2683
M26-O	04/29/2021	Primary	0.17	1	51.8	105	1.3	3.4	4.0	295	556
M27-LBF	04/27/2021	Primary	34.2	51	153	179	0.26	3.2	4.0	1,060	1745
M28-LBF	04/27/2021	Primary	0.96	2.6	3.1	81	0.61	3.2	4.0	312	610
M29-UBF	04/28/2021	Primary	32.1	84	177	456	0.57	3.2	4.0	1,030	2751
M29-UBF	04/28/2021	Duplicate	32.3	84	175	456	0.56	3.2	4.0	925	2751
M30-O	05/19/2021	Primary	12.1	18	56.6	102	0.56	3.2	4.0	238	824
M31-LBF	05/11/2021	Primary	23.6	--	146	330	0.75	3.2	4.0	814	--
M52-UBF	04/21/2021	Primary	25.9	45	160	351	0.85	3.2	4.0	476	1666
M54-LBF	04/20/2021	Primary	20.7	46	147	329	0.73	3.2	4.0	745	1731
M54-O	04/20/2021	Primary	6.1	11	50.5	200	0.58	3.2	4.0	413	855
O19-GL	04/29/2021	Primary	10.5	17	57.1	99	0.49	3.2	4.0	449	770
O49-GL(R)	05/03/2021	Primary	8.5	18	60.6	181	0.43	3.2	4.0	502	801
P19-1-O	04/29/2021	Primary	5.5	23	64.6	144	1.5	3.2	4.0	443	874
P49-O	05/03/2021	Primary	3.5	18	103	181	0.89	3.2	4.0	458	849
Arizona Aquifer Water Quality Standard ⁽²⁾			--	--	--	4.0	--	--	--	--	--

Notes:

(1) Increased frequency monitoring conducted on 5/19/2021 and 6/14/2021

(2) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

Alert Level Exceeded

J = estimated value

All results in milligrams per liter (mg/L).

Detected are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

TABLE 3
Q2 2021 INORGANIC PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Dissolved Calcium	Chloride	Nitrate (as N)	Dissolved Potassium	Dissolved Sodium	pH (Lab)	Anion/Cation Ratio
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH units	%
M1-GL	05/03/2021	Primary	153	< 2.0	101	183	5.7	4.5	116	7.7	5.44
M2-GU	04/22/2021	Primary	207	< 2.0	143	243	14.6	4.8	173	7.6	6.57
M3-GL	04/22/2021	Primary	203	< 2.0	125	195	7.2	5.7	150	7.8	8.10
M4-O	04/22/2021	Primary	225	< 2.0	118	237	11.1	5.5	195	7.4	5.39
M4-O ⁽¹⁾	05/18/2021	Primary	--	--	--	--	--	--	--	7.6	--
M4-O ⁽¹⁾	06/14/2021	Primary	--	--	--	--	--	--	--	7.7	--
M6-GU	05/04/2021	Primary	42.8	< 2.0	15.1	129	0.37	2.9	113	7.9	3.12
M7-GL	05/04/2021	Primary	61.9	46.3	2.6	74.8	< 0.023	1.1	106	9.2	3.87
M8-O	05/04/2021	Primary	96.2	91.1	2.5	44.6	0.048 J	0.95	139	9.2	-0.26
M8-O	05/04/2021	Duplicate	134	48.0	2.5	44.2	0.039 J	0.97	146	9.1	1.67
M14-GL	05/12/2021	Primary	64.8	< 2.0	18.4	142	0.67	3.1	136	8.2	7.08
M15-GU	05/12/2021	Primary	119	< 2.0	98.2	275	6.2	5.5	129	7.7	3.13
M16-GU(R)	04/29/2021	Primary	156	< 2.0	121	243	7.7	5.4	149	7.6	5.75
M17-GL	05/05/2021	Primary	69.4	< 2.0	18.9	117	< 0.023	5.3	127	8.6	4.34
M18-GU	05/03/2021	Primary	198	< 2.0	157	277	13.4	5.4	194	7.7	8.84
M19-LBF	05/11/2021	Primary	87.6	< 2.0	38.7	139	0.090 J	3.5	75.6	7.9	-1.93
M20-O(R)	04/21/2021	Primary	102	< 2.0	45.5	125	0.22	5.0	103	7.6	-21.13
M21-UBF	05/11/2021	Primary	197	< 2.0	130	243	10.3	5.1	169	7.5	5.20
M21-UBF	05/11/2021	Duplicate	194	< 2.0	133	244	10.4	5.3	174	7.6	6.50
M22-O	04/22/2021	Primary	88.6	< 2.0	36.4	132	0.45	4.0	105	8.2	2.44
M23-UBF	05/12/2021	Primary	190	< 2.0	157	293	9.4	5.8	199	7.8	6.74
M24-O	05/05/2021	Primary	79.1	< 2.0	126	60.0	0.43	4.3	253	8.0	4.53
M24-O	05/05/2021	Duplicate	78.1	< 2.0	126	60.2	0.43	4.5	252	8.0	4.00
M25-UBF	05/05/2021	Primary	199	< 2.0	212	417	15.4	6.1	226	7.6	7.36
M26-O	04/29/2021	Primary	97.1	24.7	3.2	38.5	0.82	0.98	112	8.8	4.15
M27-LBF	04/27/2021	Primary	99.7	< 2.0	148	339	9.9	5.7	136	7.7	4.25
M28-LBF	04/27/2021	Primary	57.3	30.4	8.0	123	0.053 J	2.8	114	9.0	1.66
M29-UBF	04/28/2021	Primary	200	< 2.0	140	258	10.1	5.2	179	7.8	7.22
M29-UBF	04/28/2021	Duplicate	188	< 2.0	138	252	9.8	5.2	176	7.6	8.16
M30-O	05/19/2021	Primary	124	< 2.0	54.5	138	0.65	5.0	98.1	7.9	3.29
M31-LBF	05/11/2021	Primary	178	< 2.0	110	208	9.2	5.1	156	7.8	6.43
M52-UBF	04/21/2021	Primary	196	< 2.0	115	218	9.6	4.9	154	7.5	25.1
M54-LBF	04/20/2021	Primary	185	< 2.0	105	220	7.3	4.4	144	7.4	0.74
M54-O	04/20/2021	Primary	73.4	< 2.0	29.6	142	0.73	4.9	113	8.0	3.33
O19-GL	04/29/2021	Primary	115	< 2.0	52.7	126	0.34	4.4	93.1	7.8	3.94
O49-GL(R)	05/03/2021	Primary	105	< 2.0	52.9	144	1.6	4.5	114	7.9	5.85
P19-1-O	04/29/2021	Primary	106	< 2.0	29.4	105	0.20	3.8	121	7.9	5.58
P49-O	05/03/2021	Primary	95.5	< 2.0	31.8	95.0	0.23	3.3	124	7.7	4.13
Arizona Aquifer Water Quality Standard ⁽²⁾			--	--	--	--	10	--	--	--	--

Notes:

(1) Increased frequency monitoring conducted on 5/19/2021 and 6/14/2021

(2) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

mg/L = milligrams per liter

TABLE 4
Q2 2021 RADIONUCLIDE PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location ID	Sample ID	Sample Type	Gross Alpha Analytes		Total Uranium Isotopes ⁽¹⁾ pCi/L	Adjusted Gross Alpha Activity ⁽¹⁾			Radium-226 + 228		
			pCi/L	APP AL		pCi/L	APP AL	APP AQL	pCi/L	APP AL	APP AQL
M1-GL	05/03/2021	Primary	5.7 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
M2-GU	04/22/2021	Primary	5.8 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
M3-GL	04/22/2021	Primary	6.3 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
M4-O	04/22/2021	Primary	7.5 ± 0.6	15	--	--	12	15	0.8 U	--	5.0
M6-GU	05/04/2021	Primary	0.5 U	15	--	--	12	15	0.8 U	4.0	5.0
M7-GL	05/04/2021	Primary	0.5 U	15	--	--	12	15	0.8 U	4.0	5.0
M8-O	05/04/2021	Primary	2.0 ± 0.3	15	--	--	12	15	0.8 U	4.0	5.0
M8-O	05/04/2021	Duplicate	2.8 ± 0.4	15	--	--	12	15	0.8 U	4.0	5.0
M14-GL	05/06/2021	Primary	0.5 U	15	--	--	12	15	0.8 U	4.0	5.0
M14-GL ⁽²⁾	05/12/2021	Primary	0.5 U	15	--	--	12	15	0.7 U	4.0	5.0
M15-GU	05/06/2021	Primary	3.5 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
M15-GU ⁽²⁾	05/12/2021	Primary	3.5 ± 0.4	15	--	--	12	15	0.7 U	4.0	5.0
M16-GU(R)	04/29/2021	Primary	7.5 ± 0.6	15	--	--	12	15	0.8 U	4.0	5.0
M17-GL	05/05/2021	Primary	0.5 U	15	--	--	12	15	0.7 U	4.0	5.0
M18-GU	05/03/2021	Primary	6.5 ± 0.6	15	--	--	12	15	0.8 U	4.0	5.0
M19-LBF	05/06/2021	Primary	1.0 ± 0.3	15	--	--	12	15	0.5 ± 0.2	4.0	5.0
M19-LBF ⁽¹⁾	05/11/2021	Primary	0.8 ± 0.3	15	--	--	12	15	0.7 U	4.0	5.0
M20-O(R)	04/21/2021	Primary	3.5 ± 0.4	15	--	--	12	15	0.8 U	4.0	5.0
M21-UBF	05/11/2021	Primary	4.6 ± 0.5	15	--	--	12	15	0.7 U	4.0	5.0
M21-UBF	05/11/2021	Duplicate	4.8 ± 0.5	15	--	--	12	15	0.7 U	4.0	5.0
M22-O	04/22/2021	Primary	1.5 ± 0.3	15	--	--	12	15	0.6 ± 0.2	4.0	5.0
M23-UBF	05/06/2021	Primary	5.8 ± 0.6	15	--	--	12	15	0.6 ± 0.2	4.0	5.0
M23-UBF ⁽¹⁾	05/12/2021	Primary	7.0 ± 0.6	15	--	--	12	15	0.7 ± 0.2	4.0	5.0
M24-O	05/05/2021	Primary	4.1 ± 0.5	15	--	--	12	15	0.9 ± 0.2	4.0	5.0
M24-O	05/05/2021	Duplicate	4.0 ± 0.5	15	--	--	12	15	0.5 ± 0.2	4.0	5.0
M25-UBF	05/05/2021	Primary	5.9 ± 0.6	15	--	--	12	15	0.7 U	4.0	5.0
M26-O	04/29/2021	Primary	4.0 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
M27-LBF	04/27/2021	Primary	6.4 ± 0.6	15	--	--	12	15	0.7 U	4.0	5.0
M28-LBF	04/27/2021	Primary	0.5 U	15	--	--	12	15	0.7 U	4.0	5.0
M29-UBF	04/28/2021	Primary	5.3 ± 0.8	15	--	--	12	15	0.7 U	4.0	5.0
M29-UBF	04/28/2021	Duplicate	6.0 ± 0.5	15	--	--	12	15	0.5 ± 0.2	4.0	5.0
M30-O	05/19/2021	Primary	9.5 ± 0.7	15	--	--	12	15	0.8 U	4.0	5.0
M31-LBF	05/11/2021	Primary	3.7 ± 0.4	15	--	--	12	15	0.7 U	4.0	5.0
M52-UBF	04/21/2021	Primary	4.0 ± 0.4	15	3.9 ± 0.7	0.1 ± 0.8	12	15	0.8 U	--	17.2
M54-LBF	04/20/2021	Primary	5.8 ± 0.5	15	5.0 ± 0.8	0.8 ± 0.9	--	15	0.7 U	--	17.2
M54-O	04/20/2021	Primary	2.6 ± 0.4	15	2.9 ± 0.6	1.0 U	--	15	0.7 U	--	17.2
O19-GL	04/29/2021	Primary	4.7 ± 0.5	15	--	--	12	15	0.8 U	4.0	5.0
O49-GL(R)	05/03/2021	Primary	2.1 ± 0.4	15	--	--	12	15	0.8 U	4.0	5.0
P19-1-O	04/29/2021	Primary	2.3 ± 0.4	15	--	--	12	15	0.8 U	4.0	5.0
P49-O	05/03/2021	Primary	2.1 ± 0.4	15	--	--	12	15	0.8 U	4.0	5.0
Arizona Aquifer Water Quality Standard ⁽³⁾			-- ⁽⁴⁾		--		15			5	

Notes:

(1) Total uranium isotopes are analyzed and adjusted gross alpha calculated when gross alpha concentration exceeds 12 pCi/L, and always at M52-UBF, M54-LBF, and M54-O.

(2) Partial resampling due to shipping or laboratory error

(3) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

(4) The AWQS applies to Adjusted Gross Alpha, which equals Gross Alpha minus Uranium Isotopes.

Detected are **bolded**.

U = Analyte not detected above the Minimum Detectable Concentration (MDC U or Result U ± Uncertainty)

AL = Alert Level

AQL = Aquifer Quality Limit

pCi/L = picocuries per liter

APP = Aquifer Protection Permit No. 101704

Alert Level Exceedance

TABLE 5
Q2 2021 ORGANIC PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Benzene			Ethylbenzene			Toluene			Total Xylene			Total Petroleum Hydrocarbons - Diesel	
			µg/L	APP AL	APP AQL	µg/L	APP AL	APP AQL	µg/L	APP AL	APP AQL	µg/L	APP AL	APP AQL	mg/L	APP AL
M1-GL	05/03/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M2-GU	04/22/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M3-GL	04/22/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M4-O	04/22/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M6-GU	05/04/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M7-GL	05/04/2021	Primary	0.162 J	4.0	5.0	0.265 J	560	700	< 0.278	800	1000	1.03 J	8000	10000	0.0613 J	--
M8-O	05/04/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M8-O	05/04/2021	Duplicate	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0271 J	--
M14-GL	05/12/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0231 J	--
M15-GU	05/12/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0511 J	--
M16-GU(R)	04/29/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0582 J	--
M17-GL	05/05/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M18-GU	05/03/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M19-LBF	05/11/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0886 J	--
M20-O(R)	04/21/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M21-UBF	05/11/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0456 J	--
M21-UBF	05/11/2021	Duplicate	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M22-O	04/22/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M23-UBF	05/12/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0489 J	--
M24-O	05/05/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	2.54	800	1000	< 0.174	8000	10000	< 0.0222	--
M24-O	05/05/2021	Duplicate	< 0.0941	4.0	5.0	< 0.137	560	700	2.34	800	1000	< 0.174	8000	10000	< 0.0222	--
M25-UBF	05/05/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0737 J	--
M26-O	04/29/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0563 J	--
M27-LBF	04/27/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M28-LBF	04/27/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
M29-UBF	04/28/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0700 J	--
M29-UBF	04/28/2021	Duplicate	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0652 J	--
M30-O	05/19/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	0.479 J	800	1000	< 0.174	8000	10000	< 0.0222	--
M31-LBF	05/11/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0786 J	--
M52-UBF	04/21/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	0.28
M54-LBF	04/20/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	0.28
M54-O	04/20/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	0.28
O19-GL	04/29/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0759 J	--
O49-GL(R)	05/03/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--
P19-1-O	04/29/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	0.0449 J	--
P49-O	05/03/2021	Primary	< 0.0941	4.0	5.0	< 0.137	560	700	< 0.278	800	1000	< 0.174	8000	10000	< 0.0222	--

Arizona Aquifer Water Quality Standard⁽¹⁾

5 700 1000

10000 --

Notes:

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

Detected are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

AL = Alert Level

AQL = Aquifer Quality Limit

J = estimated value

mg/L = milligrams per liter

µg/L = micrograms per liter

APP = Aquifer Protection Permit No. 101704

TABLE 6

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Q2 2021 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Dissolved Aluminum		Dissolved Antimony		Dissolved Arsenic		Dissolved Barium		Dissolved Beryllium		Dissolved Cadmium		Dissolved Chromium ⁽²⁾		Dissolved Cobalt		Dissolved Copper		Dissolved Iron						
			mg/L	APP AL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	mg/L	APP AL	mg/L	APP AL		
M1-GL	05/03/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0016	0.026	0.05	0.025	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.005	0.00082	0.08	0.1	<0.000085	0.005	0.00067 J	0.51	<0.012	2.2
M2-GU	04/22/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0026	0.026	0.05	0.056	1.6	2.0	<0.000054	--	0.0053	<0.000030	--	0.0012	0.08	0.1	<0.000085	0.005	0.00051 J	0.51	<0.012	2.2
M3-GL	04/22/2021	Primary	0.0077 J	0.71	<0.000077	0.005	0.006	0.0016	0.026	0.05	0.033	1.6	2.0	<0.000054	--	0.0053	<0.000030	--	0.00086	0.08	0.1	<0.000085	0.005	0.00054 J	0.51	<0.012	2.2
M4-O	04/22/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0018	0.026	0.05	0.035	1.6	2.0	<0.000054	--	0.0053	<0.000030	--	0.0011	0.08	0.1	<0.000085	0.005	0.0089	0.51	<0.012	2.2
M5-GU	05/04/2021	Primary	0.0081 J	0.71	<0.000077	0.005	0.006	0.0017	0.026	0.05	0.051	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.012	0.08	0.1	0.00074	0.005	0.00075 J	0.51	0.036 J	2.2
M7-GL	05/04/2021	Primary	0.020	0.71	<0.000077	0.005	0.006	0.0083	0.026	0.05	0.031	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.00030 J	0.08	0.1	<0.000085	0.005	<0.00043	0.51	0.060	2.2
M8-O	05/04/2021	Primary	0.025	0.71	<0.000077	0.005	0.006	0.0028 J	0.026	0.05	0.0012	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00045 J	0.08	0.1	<0.000085	0.005	<0.00043	0.8	0.064	2.2
M8-O	05/04/2021	Duplicate	0.0093 J	0.71	<0.000077	0.005	0.006	0.00030 J	0.026	0.05	0.0011	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00039 J	0.08	0.1	<0.000085	0.005	0.00058 J	0.8	0.054	2.2
M14-GL	05/12/2021	Primary	<0.0071	0.71	<0.000077	--	0.016	0.0069	0.026	0.05	0.016	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0034	0.08	0.1	<0.000085	0.005	0.0014	0.8	<0.012	2.2
M15-GU	05/12/2021	Primary	0.039	0.71	<0.000077	--	0.016	0.0015	0.026	0.05	0.0041	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.0028	0.08	0.1	0.00012 J	0.005	0.00076 J	0.8	0.077	2.2
M16-GR(R)	04/29/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0015	0.026	0.05	0.0099	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.0011	0.08	0.1	<0.000085	0.005	0.0062	0.8	<0.012	2.2
M17-GL	05/05/2021	Primary	0.013 J	0.71	<0.000077	--	0.016	0.0040 J	0.026	0.05	0.014	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00025 J	0.08	0.1	<0.000085	0.005	0.00048 J	0.8	0.067	2.2
M18-GU	05/03/2021	Primary	<0.0073	0.71	<0.000077	--	0.016	0.0020	0.026	0.05	0.067	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.00112	0.08	0.1	<0.000085	0.005	0.0010	0.8	<0.012	2.2
M19-LBF	05/11/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	<0.00014	0.026	0.05	0.025	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00029 J	0.08	0.1	<0.000085	0.005	<0.00043	0.8	0.19	2.2
M20-O(B)	04/21/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.00063	0.026	0.05	0.011	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.0010	0.08	0.1	<0.000085	0.005	0.0024	0.8	<0.012	2.2
M21-UBF	05/11/2021	Primary	0.0078 J	0.71	<0.000077	--	0.016	0.0026	0.026	0.05	0.057	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.00080	0.08	0.1	<0.000085	0.005	<0.00043	0.8	0.21	2.2
M21-UBF	05/11/2021	Duplicate	0.0074 J	0.71	<0.000077	--	0.016	0.0025	0.026	0.05	0.057	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.00078	0.08	0.1	<0.000085	0.005	<0.00043	0.8	0.19	2.2
M22-O	04/22/2021	Primary	0.0094 J	0.71	<0.000077	--	0.016	0.00022 J	0.026	0.05	0.0026	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.0016	0.08	0.1	<0.000085	0.005	0.00048 J	0.8	0.12	2.2
M23-UBF	05/12/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0020	0.026	0.05	0.071	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	--	0.00090	0.08	0.1	<0.000085	0.005	0.00044 J	0.8	<0.012	2.2
M24-O	05/05/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.00020 J	0.026	0.05	0.0062	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0010	0.08	0.1	<0.000085	0.005	0.00075 J	0.8	0.50	2.2
M24-O	05/05/2021	Duplicate	<0.0071	0.71	<0.000077	0.005	0.006	0.00021 J	0.026	0.05	0.0064	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0013	0.08	0.1	<0.000085	0.005	0.00065 J	0.8	0.55	2.2
M25-UBF	05/05/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0016	0.026	0.05	0.089	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0016	0.08	0.1	<0.000085	0.005	0.00079 J	0.8	<0.012	2.2
M26-O	04/29/2021	Primary	0.016 J	0.71	0.00027 J	--	0.016	0.0010	0.026	0.05	0.0014	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0066	0.08	0.1	<0.000085	0.005	0.00063 J	0.8	0.026 J	2.2
M27-LBF	04/27/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.0016	0.026	0.05	0.027	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.016	0.08	0.1	0.00011 J	0.005	0.00090 J	0.8	0.20	2.2
M28-LBF	04/27/2021	Primary	<0.0071	0.71	<0.000077	0.005	0.006	0.00068	0.026	0.05	0.0062	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00027 J	0.08	0.1	<0.000085	0.005	<0.00043	0.8	0.024 J	2.2
M29-UBF	04/28/2021	Primary	0.019 J	0.71	<0.000077	0.005	0.006	0.0020	0.026	0.05	0.059	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0013	0.08	0.1	<0.000085	0.005	0.0013	0.8	0.14	2.2
M29-UBF	04/28/2021	Duplicate	0.016 J	0.71	<0.000077	0.005	0.006	0.0021	0.026	0.05	0.057	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00086	0.08	0.1	<0.000085	0.005	0.00051 J	0.8	0.12	2.2
M30-O	05/19/2021	Primary	0.0082 J	0.71	<0.000077	0.005	0.006	0.00048 J	0.026	0.05	0.016	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0013	0.08	0.1	0.00012 J	0.005	0.0010	0.8	0.13	2.2
M31-LBF	05/11/2021	Primary	0.18	0.71	<0.000077	0.005	0.006	0.0021	0.026	0.05	0.049	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00076	0.08	0.1	<0.000085	0.005	0.00068 J	0.8	0.25	2.2
M52-UBF	04/21/2021	Primary	0.010 J	0.16	<0.000077	0.0048	0.006	0.0026	0.026	0.05	0.044	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.00084	0.08	0.1	<0.000085	0.002	0.00052 J	0.8	<0.012	1.4
M54-O	04/20/2021	Primary	<0.0071	0.16	<0.000077	0.0048	0.006	0.0082	0.026	0.05	0.0069	1.6	2.0	<0.000054	0.0032	0.004	<0.000030	0.004	0.0011	0.08	0.1	<0.000085	0.002	0.00044 J	0.8	0.020 J	1.4
O19-GL	04/29/2021	Primary	<0.0071	0.71	<0.000077																						

TABLE 6

Page 2 of 2

Q2 2021 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Dissolved Lead			Dissolved Manganese			Dissolved Mercury			Dissolved Nickel			Dissolved Selenium			Dissolved Thallium			Total Uranium	Dissolved Zinc	
			mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	APP AL	APP AQL	mg/L	mg/L	APP AL
M1-GL	05/03/2021	Primary	<0.000043	0.04	0.05	<0.00022	0.22	0.000013	0.0016	0.002	<0.00018	--	0.13	0.00056	0.04	0.05	<0.000047	0.0016	0.002	0.0048	<0.0023	2.5	
M2-GU	04/22/2021	Primary	<0.000043	0.04	0.05	<0.00022	0.22	<0.000045	0.0016	0.002	0.00020 J	--	0.13	0.0015	0.04	0.05	<0.000047	0.0016	0.002	0.0057	<0.0023	2.5	
M3-GL	04/22/2021	Primary	<0.000043	0.04	0.05	<0.00022	0.22	<0.000045	0.0016	0.002	0.0012	--	0.13	0.00085	0.04	0.05	<0.000047	0.0016	0.002	0.0055	<0.0023	2.5	
M4-O	04/22/2021	Primary	<0.000043	0.026	0.05	0.00063	0.22	<0.000045	0.0016	0.002	0.0053	0.08	0.1	0.0016	0.027	0.05	<0.000047	0.0016	0.002	0.0068	0.0053	2.5	
M6-GU	05/04/2021	Primary	<0.000043	0.026	0.05	0.0045	0.22	0.000060 J	0.0016	0.002	0.043	0.08	0.1	0.0030 J	0.027	0.05	<0.000047	0.0016	0.002	0.0048 J	<0.0023	2.5	
M7-GL	05/04/2021	Primary	<0.000043	0.026	0.05	0.0036	0.22	0.000080 J	0.0016	0.002	0.00040 J	--	0.13	<0.00014	0.027	0.05	<0.000047	0.0016	0.002	0.0027 J	<0.0023	2.5	
M8-O	05/04/2021	Primary	<0.000043	0.04	0.05	0.0082	0.22	0.000012	0.0016	0.002	0.00032 J	0.08	0.1	<0.00014	0.04	0.05	<0.000047	0.0016	0.002	0.0019	<0.0023	4.0	
M8-O	05/04/2021	Duplicate	<0.000043	0.04	0.05	0.0090	0.22	0.000080 J	0.0016	0.002	<0.00018	0.08	0.1	<0.00014	0.04	0.05	<0.000047	0.0016	0.002	0.0043	<0.0023	4.0	
M14-GL	05/12/2021	Primary	<0.000043	0.04	0.05	0.0014	0.22	<0.000047	0.0016	0.002	<0.00018	--	0.13	0.00062	0.04	0.05	<0.000047	0.0016	0.002	0.00081	<0.0023	4.0	
M15-GU	05/12/2021	Primary	0.000077 J	0.04	0.05	0.0016	0.22	<0.000047	0.0016	0.002	0.0062	--	0.13	0.00054	0.04	0.05	<0.000047	0.0016	0.002	0.0030	<0.0023	4.0	
M16-GL(R)	04/29/2021	Primary	<0.000043	0.04	0.05	0.00040 J	0.22	<0.000045	0.0016	0.002	0.00022 J	0.08	0.1	0.00073	0.04	0.05	<0.000047	0.0016	0.002	0.0061	<0.0023	4.0	
M17-GL	05/05/2021	Primary	<0.000043	0.04	0.05	0.014	0.22	0.000011	0.0016	0.002	0.00049 J	0.08	0.1	<0.00014	0.04	0.05	<0.000047	--	0.024	0.000054 J	<0.0023	4.0	
M18-GU	05/03/2021	Primary	<0.000043	0.04	0.05	<0.00022	0.22	<0.000045	0.0016	0.002	0.00034 J	0.08	0.1	0.0011	0.04	0.05	<0.000047	0.0016	0.002	0.0060	<0.0023	4.0	
M19-LBF	05/11/2021	Primary	<0.000043	0.04	0.05	0.12	0.22	<0.000047	0.0016	0.002	<0.00018	0.08	0.1	<0.00014	0.04	0.05	<0.000047	--	0.024	0.0012	0.0051	4.0	
M20-(O,B)	04/21/2021	Primary	<0.000043	0.04	0.05	0.0089	0.22	<0.000045	0.0016	0.002	0.0015	0.08	0.1	0.0028	0.04	0.05	<0.000047	--	0.024	0.0032	<0.0023	4.0	
M21-UBF	05/11/2021	Primary	<0.000043	0.04	0.05	0.0040	0.22	<0.000047	0.0016	0.002	0.00033 J	0.08	0.1	0.00076	0.04	0.05	<0.000047	--	0.024	0.0039	<0.0023	4.0	
M21-UBF	05/11/2021	Duplicate	<0.000043	0.04	0.05	0.0035	0.22	<0.000047	0.0016	0.002	0.00025 J	0.08	0.1	0.00083	0.04	0.05	<0.000047	--	0.024	0.0042	<0.0023	4.0	
M22-O	04/22/2021	Primary	<0.000043	0.04	0.05	0.015	0.22	<0.000045	0.0016	0.002	<0.00018	0.08	0.1	0.0016	0.04	0.05	<0.000047	--	0.024	0.0030	<0.0023	4.0	
M23-UBF	05/12/2021	Primary	<0.000043	0.04	0.05	0.00094	0.22	<0.000047	0.0016	0.002	<0.00018	0.08	0.1	0.00086	0.04	0.05	<0.000047	--	0.024	0.0057	<0.0023	4.0	
M24-O	05/05/2021	Primary	<0.000043	0.04	0.05	0.011	0.22	<0.000045	0.0016	0.002	0.00037 J	0.08	0.1	0.0087	0.04	0.05	<0.000047	0.0016	0.002	0.00094	<0.0023	4.0	
M24-O	05/05/2021	Duplicate	<0.000043	0.04	0.05	0.012	0.22	<0.000045	0.0016	0.002	0.00024 J	0.08	0.1	0.0090	0.04	0.05	<0.000047	0.0016	0.002	0.00093	<0.0023	4.0	
M25-UBF	05/05/2021	Primary	<0.000043	0.04	0.05	0.00029 J	0.22	0.000080 J	0.0016	0.002	0.00038 J	0.08	0.1	0.0012	0.04	0.05	<0.000047	--	0.024	0.0069	<0.0023	4.0	
M26-O	04/29/2021	Primary	<0.000043	0.04	0.05	0.00090	0.22	<0.000045	0.0016	0.002	0.0011	0.08	0.1	0.0029	0.04	0.05	<0.000047	0.0016	0.002	0.0057	<0.0023	4.0	
M27-LBF	04/27/2021	Primary	<0.000043	0.04	0.05	0.0034	0.22	<0.000045	0.0016	0.002	0.0046	0.08	0.1	0.0011	0.04	0.05	<0.000047	--	0.024	0.0028	<0.0023	4.0	
M28-LBF	04/27/2021	Primary	<0.000043	0.04	0.05	0.019	0.22	<0.000045	0.0016	0.002	0.00052	0.08	0.1	<0.00014	0.04	0.05	<0.000047	--	0.024	0.000068 J	<0.0023	4.0	
M29-UBF	04/28/2021	Primary	<0.000043	0.04	0.05	0.0023	0.22	<0.000045	0.0016	0.002	0.00095	0.08	0.1	0.00071	0.04	0.05	<0.000047	--	0.024	0.0049	0.0033 J	4.0	
M29-UBF	04/28/2021	Duplicate	<0.000043	0.04	0.05	0.0017	0.22	<0.000045	0.0016	0.002	0.00027 J	0.08	0.1	0.00072	0.04	0.05	<0.000047	--	0.024	0.0050	<0.0023	4.0	
M30-O	05/19/2021	Primary	<0.000043	0.04	0.05	0.029	0.22	<0.000047	0.0016	0.002	0.0032	0.08	0.1	0.0011	0.04	0.05	<0.000047	--	0.024	0.0058	0.0027 J	4.0	
M31-LBF	05/11/2021	Primary	0.000010	0.04	0.05	0.0086	0.22	<0.000047	0.0016	0.002	0.00048 J	0.08	0.1	0.00095	0.04	0.05	<0.000047	--	0.024	0.0031	<0.0023	4.0	
M52-UBF	04/21/2021	Primary	0.00015	0.04	0.05	0.00023 J	0.52	<0.000045	0.0016	0.002	0.00047 J	0.08	0.1	0.0011	0.04	0.05	<0.000047	0.0016	0.002	0.0043	<0.0023	4.0	
M54-LBF	04/20/2021	Primary	<0.000043	0.04	0.05	<0.00022	0.52	<0.000045	0.0016	0.002	0.00023 J	0.08	0.1	0.00065	0.04	0.05	<0.000047	0.0016	0.002	0.0043	<0.0023	4.0	
M54-O	04/20/2021	Primary	<0.000043	0.04	0.05	0.0015	0.52	<0.000045	0.0016	0.002	0.0072	0.08	0.1	0.00074	0.04	0.05	<0.000047	0.0016	0.002	0.0032	<0.0023	4.0	
O19-GL	04/29/2021	Primary	<0.000043	0.04	0.05	0.000075	0.22	<0.000045	0.0016	0.002	0.016	--	0.13	0.0012	0.04	0.05	<0.000047	--	0.024	0.0043	<0.0023	4.0	
O49-GL(R)	05/03/2021	Primary	0.000049 J	0.04	0.05	<0.00022	0.22	<0.000045	0.0016	0.002	0.00046 J	0.08	0.1	0.00027 J	0.04	0.05	<0.000047	--	0.024	0.0033	<0.0023	4.0	
P19-1-O	04/29/2021	Primary	<0.000043	0.04	0.05	0.00064	0.22	<0.000045	0.0016	0.002	0.0032	--	0.13	0.0028	0.04	0.05	<0.000047	--	0.024	0.0033	<0.0023	4.0	
P49-O	05/03/2021	Primary	<0.000043	0.04	0.05	0.0013	0.22	0.000017	0.0016	0.002	<0.00018	0.08	0.1	0.0024	0.04	0.05	<0.000047	0.0016	0.002	0.00023 J	<0.0023	4.0	

Notes:

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, Dec 31, 2016.

(2) Total (i.e., non-speciated) dissolved chromium

Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (<MDL).

AL = Alert level

AQL = Aquifer Quality Limit

J = estimated value

mg/L = milligrams per liter

APP = Temporary Aquifer Protection Permit No. 101704

Alert Level Exceedance

APPENDIX A

Data Quality Assurance/Quality Control Summary Memorandum



HALEY & ALDRICH, INC.
One Arizona Center
400 E. Van Buren St., Suite 545
Phoenix, AZ 85004
602.760.2450

MEMORANDUM

28 July 2021
File No. 133887-010

TO: Haley & Aldrich, Inc.
Laura Menken R.G.

FROM: Haley & Aldrich, Inc.
Alexis Rainery, Engineer
Katherine Miller, Project Manager

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the second quarter 2021 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency [USEPA], 2012].¹ For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness with the chain of custody (COC);
- Comparison of reporting limits to alert levels (AL) and aquifer quality limits (AQL);
- Holding times/preservation;
- Blank sample analysis;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data were qualified by the laboratory in accordance with laboratory standard operating procedures (SOP). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel.

- Laboratory report 105568-56 was revised on 20 July 2021 to provide a correct analysis date for the radon result for well M22-O.
- Laboratory reports 105594-91 and 105594-95 were received late due to shipping delays. As a result, only radionuclide parameters were reported. This affected wells M14-GL, M15-GU, M23-UBF, and M19-LBF. Resampling was completed to provide full data sets.
- In laboratory report 105566-76, sulfate was originally misreported for well M20-O(R) due to a labeling issue. A revised report was provided on 2 June 2021 to correct the results. Before the issue was identified, an additional sample was taken at M20-O(R). Both results are reported.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol with the following exceptions:

- All samples analyzed for pH by method SM 4500-H+B were analyzed outside the hold time by the laboratory per client request.

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
105615-06	USEPA 300.0	WG	48 hours	Cool to ≤ 6 °C	Nitrate by method USEPA 300.0 was analyzed outside the 48-hour hold time for the following sample: M30-O-GW-051921
105589-78	USEPA 300.0	WG	48 hours	Cool to ≤ 6 °C	Nitrate by method USEPA 300.0 was analyzed outside the 48-hour hold time (by 4 to 20 hours) for the following samples: M101-050521 M17-GL-050521 M24-O-050521 M25-UBF-050521

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
105599-60	USEPA 300.0	WG	48 hours	Cool to ≤ 6 °C	Nitrate by method USEPA 300.0 was analyzed outside the 48-hour hold time (by 9 to 19 hours) for the following samples: M19-LBF-051121 M21-UBF-051121 M31-LBF-051121 M66-L-051121
105573-46	SM2320B	WG	14 days	Cool to ≤ 6 °C	Confirmatory analysis of alkalinity (bicarbonate, carbonate, hydroxide, and total) was performed outside the 14-day hold time for the following samples: M27-LBF-042721 M28-LBF-042721
Notes: °C = degrees Celsius SM = standard method USEPA = U.S. Environmental Protection Agency					

BLANK SAMPLE ANALYSIS

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred with the following exceptions:

Laboratory Report	Associated Sample ID(s)	Batch ID	Analyte Detected in Method Blank	Concentration (mg/L)
105599-31	M14-GL M15-GU M23-UBF TB	L1353747	C10-C28 Diesel Range	0.0236 J
105599-60	M21-UBF M66-L M19-LBF M31-LBF TB	743505	Calcium, Dissolved	0.071
105599-60		743505	Chromium, Dissolved	0.00048 J
105599-60		743505	Magnesium, Dissolved	0.017
105599-60		743505	Manganese, Dissolved	0.0015
105599-60		743505	Sodium, Dissolved	0.032 J
105599-60		L1353797	C10-C28 Diesel Range	0.0236 J
105568-52	M4-O M2-GU M3-GL TB	738388	TDS	5.0 J
105568-52		L1345013	C28-C40 Oil Range	0.0747 J
105568-56	M22-O TB	738388	Total Dissolved Solids	5.0 J
105568-56		L1344976	C28-C40 Oil Range	0.0747 J
105578-95	M26-O-GW-042921 O19-GL-GW-042921 M16-GU(R)-GW-042921	740851	Calcium, Dissolved	0.016 J
105578-95		740851	Magnesium, Dissolved	0.0061 J
105578-95		740851	Manganese, Dissolved	0.00025 J

Laboratory Report	Associated Sample ID(s)	Batch ID	Analyte Detected in Method Blank	Concentration (mg/L)
105578-95	P19-1-O-GW-042921 Trip Blank	739938	Total Dissolved Solids	5.0 J
105584-05		742157	Mercury, Dissolved	0.0000090 J
105584-05		740851	Calcium, Dissolved	0.016 J
105584-05		740851	Magnesium, Dissolved	0.0061 J
105584-05		740851	Manganese, Dissolved	0.00025 J
105584-05		740926	Total Dissolved Solids	5.0 J
105585-58		742157	Mercury, Dissolved	0.0000090 J
105585-58		740851	Calcium, Dissolved	0.016 J
105585-58		740851	Magnesium, Dissolved	0.0061 J
105585-58		740851	Manganese, Dissolved	0.00025 J
105585-58		740930	Total Dissolved Solids	5.0 J
105577-09		740851	Calcium, Dissolved	0.016 J
105577-09		740851	Magnesium, Dissolved	0.0061 J
105577-09		740851	Manganese, Dissolved	0.00025 J
105573-46		739006	Total Dissolved Solids	5.0 J
105573-46		L1345730	C28-C40 Oil Range	0.0747 J
105615-07	M20-O(R)-GW-051921	744604	Total Dissolved Solids	5.0 J
105589-78		742157	Mercury, Dissolved	0.0000090 J
105589-78		740851	Calcium, Dissolved	0.016 J
105589-78		740851	Magnesium, Dissolved	0.0061 J
105589-78		740851	Manganese, Dissolved	0.00025 J
105589-78		740930	Total Dissolved Solids	5.0 J
105615-06	M30-O-GW-051921 Trip Blank	743887	Manganese, Dissolved	0.00041 J

Notes:

J = estimated

mg/L = milligrams per liter

Trip blank samples had no detections, indicating that no contamination occurred during shipping.

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample, matrix spike, and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPD) within the specified limits with the following exceptions:

Laboratory Report	Associated Sample ID(s)	Sample Type	Method	Batch ID	Analyte	%R, RPD	Acceptable %R, RPD
105599-31	M14-GL M15-GU M23-UBF	LCSD	USEPA 8015D	L1353747	C10-C28 Diesel Range	RPD=21.4	RPD=20
105566-76	M20-O(R) M52-UBF	LCS	USEPA 8260B	L1343685	n-Octane	265%	70-130%
105566-76	M52-UBF-042121 M20-O(R)-042121	MS	SM 2320B	739691	Alkalinity, Total as CaCO ₃	74%	80-120%
105566-76		MS/MSD	USEPA	737062	Fluoride	77%/77%	80-120%
105599-60	M19-LBF M21-UBF M31-LBF M66-L	LCS	USEPA 8015D	L1353797	C10-C28 Diesel Range	RPD=21.4	RPD=20
105599-60		MS/MSD	USEPA 200.8	744899	Calcium, Dissolved	-17%/149%	70-130%
105599-60		MSD	USEPA 200.8	744899	Magnesium, Dissolved	136%	70-130%
105599-60		MS/MSD	USEPA 200.8	744899	Sodium, Dissolved	-237%/113%	70-130%
105599-60		LCSD	USEPA 8015D	L1353797	C10-C28 Diesel Range	RPD=21.4	RPD=20
105585-58	M8-O-GW-050421 O66-GW-050421 M7-GL-GW-050421 M6-GU-GW-050421 Trip Blank	MS	USEPA 200.8	740851	Sodium, Dissolved	61%	70-130%
105656-09	M4-O-GW-061421	MSD	USEPA 300.0	749960	Sulfate	122%	80-120%
105609-29	M4-O-GW-051821	MS/MSD	USEPA 300.0	746208	Sulfate	133%; RPD=23	80-120%; RPD=20
105615-06	M30-O-GW-051921	MS	EPA 200.8	743887	Calcium, Dissolved	357%	70-130%

Notes:

% = percent

%R = percent recovery

LCS = laboratory control sample

LCSD = laboratory control sample duplicate

MS = matrix spike

MSD = matrix spike duplicate

RPD = relative percent difference

USEPA = U.S. Environmental Protection Agency

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The following samples were collected for field duplicate analysis and the RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit) with the following exceptions:

Primary Sample ID	Duplicate Sample ID	Methods for Which Field Duplicates Were Analyzed
M29-UBF	W74-P	pH by SM 4500H+ Electroconductivity by SM 2510 Anions by USEPA 300.0 Total Dissolved Solids by SM 2540C Metals by EPA 200.7 and USEPA 200.8 Gross Alpha by 600/00-02 Gross Beta by USEPA 900 Radium 226 + 228 by 903/Gamma Ray HPGE Uranium Isotopes (Activity) by ASTM 6239 Extractable Fuel Hydrocarbons by USEPA 8015D Volatile Organic Compounds by USEPA 8260B
M24-O	M101	
M21-UBF	M66-L	

Notes:
SM = Standard Method
USEPA = U.S. Environmental Protection Agency

Analyte (mg/L)	Primary Sample ID	Duplicate Sample ID	RPD	Qualification
	M29-UBF	W74-P		
Manganese	0.0023	0.0017	NA	Absolute Difference > RL
Nickel	0.00095	0.00027	NA	Absolute Difference > RL

Notes:
mg/L = milligrams per liter
NA = not applicable
RL = reporting limit
RPD = relative percent difference

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory were verified against the electronic data deliverables.

ATTACHMENT 10B

Summary of Quarterly Water Levels

SUMMARY OF QUARTERLY WATER LEVELS

Page 1 of 2

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M1-GL	04/13/2021	217.75	TOC	1461.75	1244.00
M1-GL	05/03/2021	222.22	TOC	1461.75	1239.53
M2-GU	04/13/2021	207.3	TOC	1460.8	1253.50
M2-GU	04/22/2021	207.35	TOC	1460.8	1253.45
M3-GL	04/13/2021	208.91	TOC	1460.74	1251.83
M3-GL	04/22/2021	209.31	TOC	1460.74	1251.43
M4-O	04/13/2021	209.62	TOC	1460.6	1250.98
M4-O	04/22/2021	210.11	TOC	1460.6	1250.49
M4-O	05/18/2021	208.6	TOC	1460.6	1252.00
M4-O	06/14/2021	219.9	TOC	1460.6	1240.70
M6-GU	04/13/2021	237.9	TOC	1482.45	1244.55
M6-GU	05/04/2021	239.3	TOC	1482.45	1243.15
M7-GL	04/13/2021	238.13	TOC	1481.22	1243.09
M7-GL	05/04/2021	239.26	TOC	1481.22	1241.96
M8-O	04/13/2021	240.04	TOC	1480.46	1240.42
M8-O	05/04/2021	239.97	TOC	1480.46	1240.49
M14-GL	04/13/2021	NM	TOC	1476.53	NM
M14-GL	05/06/2021	239.9	TOC	1477.12	1237.22
M15-GU	04/13/2021	230.81	TOC	1476.53	1245.72
M15-GU	05/06/2021	238.39	TOC	1476.53	1238.14
M15-GU	05/12/2021	237.68	TOC	1476.53	1238.85
M16-GU(R)	04/13/2021	NM	TOC	1466.16	NM
M16-GU(R)	04/29/2021	235.75	TOC	1468.57	1232.82
M17-GL	04/13/2021	236.71	TOM	1466.16	1229.45
M17-GL	05/05/2021	246.38	TOM	1466.16	1219.78
M18-GU	04/13/2021	206.9	TOC	1462.4	1255.50
M18-GU	05/03/2021	206.57	TOC	1462.4	1255.83
M19-LBF	04/13/2021	241.81	TOM	1490.05	1248.24
M19-LBF	05/06/2021	245.03	TOM	1490.05	1245.02
M19-LBF	05/11/2021	246.23	TOM	1490.05	1243.82
M20-O(R)	04/13/2021	243.15	TOC	1490.42	1247.27
M20-O(R)	04/21/2021	241.92	TOC	1490.42	1248.50
M21-UBF	04/13/2021	240.03	TOM	1489.52	1249.49
M21-UBF	05/11/2021	231.8	TOM	1489.52	1257.72
M22-O	04/13/2021	235.33	TOM	1478.58	1243.25
M22-O	04/22/2021	234.28	TOM	1478.58	1244.30
M23-UBF	04/13/2021	219.65	TOM	1477.61	1257.96
M23-UBF	05/06/2021	220.05	TOM	1477.61	1257.56
M23-UBF	05/12/2021	220.18	TOM	1477.61	1257.43
M24-O	04/13/2021	227.6	TOM	1469.29	1241.69
M24-O	05/05/2021	236.74	TOM	1469.29	1232.55
M25-UBF	04/13/2021	213.51	TOM	1469.27	1255.76
M25-UBF	05/05/2021	214.41	TOM	1469.27	1254.86
M26-O	04/13/2021	244.4	TOM	1488.41	1244.01
M26-O	04/29/2021	244.47	TOM	1488.41	1243.94
M27-LBF	04/13/2021	241.44	TOM	1488.85	1247.41
M27-LBF	04/27/2021	242.27	TOM	1488.85	1246.58

SUMMARY OF QUARTERLY WATER LEVELS

Page 2 of 2

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M28-LBF	04/13/2021	242.59	TOM	1489.45	1246.86
M28-LBF	04/27/2021	243.45	TOM	1489.45	1246.00
M29-UBF	04/13/2021	241.84	TOM	1489.49	1247.65
M29-UBF	04/28/2021	242.61	TOM	1489.49	1246.88
M30-O	04/13/2021	237.03	TOM	1486.36	1249.33
M30-O	05/19/2021	237.85	TOM	1486.36	1248.51
M31-LBF	04/13/2021	236.73	TOM	1485.93	1249.20
M31-LBF	05/11/2021	239.05	TOM	1485.93	1246.88
M52-UBF	04/13/2021	231.3	TOC	1485.04	1253.74
M52-UBF	04/21/2021	231.51	TOC	1485.04	1253.53
M54-LBF	04/13/2021	234.33	TOC	1481.92	1247.59
M54-LBF	04/20/2021	234.73	TOC	1481.92	1247.19
M54-O	04/13/2021	238.33	TOC	1482.47	1244.14
M54-O	04/20/2021	236.34	TOC	1482.47	1246.13
O19-GL	04/13/2021	238.23	TOM	1483.28	1245.05
O19-GL	04/29/2021	239.35	TOM	1483.28	1243.93
O49-GL(R)	04/13/2021	223.83	TOM	1465.83	1242.00
O49-GL(R)	05/03/2021	235.55	TOM	1465.83	1230.28
P19-1-O	04/13/2021	239.05	TOM	1484.72	1245.67
P19-1-O	04/29/2021	239.9	TOM	1484.72	1244.82
P49-O	04/13/2021	224.05	TOM	1463.12	1239.07
P49-O	05/03/2021	230.1	TOM	1463.12	1233.02
Status of Local Production Wells					
BIA-9R	04/13/2021			Not Pumping	
BIA-10	04/13/2021			Not Pumping	
PW2-1	04/13/2021			Pumping	
WW-4	04/13/2021			Not Pumping	

Notes:*amsl = above mean sea level**TOC = top of casing**TOM = top of monument*

ATTACHMENT 11

Resource Block Status Report

Q2 2021 RESOURCE BLOCK STATUS SUMMARY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Resource Block ⁽¹⁾	Block Status	Notes
045	Rinsing	Only those wells associated with the Production Test Facility have been constructed within the identified resource blocks.
053	Rinsing	
054	Rinsing	

Notes:*(1) Resource block numbering provided in Figure 1 attached**At this time, no other resource blocks are planned for immediate construction.*

ATTACHMENT 12

Monthly ISCR Wellfield Water Analytical Results

Q2 2021

MONTHLY ISCR WELLFIELD WATER ANALYTICAL RESULTS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. Treated ISCR Wellfield Water

Monitoring Parameters	Maximum Ambient Water Quality ⁽¹⁾	Analytical Results		
		4/14/2021	5/20/2021	6/16/2021
Metals				
Aluminum	0.08	< 2.0	< 2.0	< 2.0
Antimony	0.0005	< 0.20	< 0.20	< 0.20
Arsenic	0.0029	< 0.040	< 0.040	< 0.040
Barium	0.11	< 0.050	< 0.050	< 0.050
Beryllium	0.0005	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.0014	< 0.0020	< 0.0020	< 0.0020
Chromium	0.01	< 0.030	< 0.030	< 0.030
Cobalt	0.0081	< 0.10	< 0.10	< 0.10
Copper	1.9	1.9	1.7	5.2
Iron	0.3	< 0.30	< 0.30	< 0.30
Lead	0.001	< 0.040	< 0.040	< 0.040
Magnesium	30	< 3.0	< 3.0	3.9
Manganese	0.12	0.057	0.16	0.15
Mercury	0.001	< 0.0010	< 0.0010	< 0.0010
Molybdenum	--	< 0.010	< 0.010	< 0.010
Nickel	0.015	< 0.050	< 0.050	< 0.050
Selenium	0.0039	< 0.040	< 0.040	< 0.040
Thallium	0.001	< 0.050	< 0.050	< 0.050
Uranium	--	0.0033	0.0033	0.01
Zinc	1.9	< 0.040	0.08	< 0.040
Inorganic Parameters				
Total Alkalinity	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Bicarbonate	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Carbonate	20	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Hydroxide	2	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
pH (pH Units)	8.7	2.55	2.67	2.56
Temperature (°C)	32.4	29.6	39.3	32.4
Conductivity	1800	1364	1053	1475
Calcium	140	<4.0	<4.0	5.2
Chloride	340	94	81	120
Fluoride	0.89	<0.5	0.34	0.55
Potassium	11	<5.0	<5.0	<5.0
Sodium	180	<5.0	<5.0	<5.0
TDS	1100	40	44	85
Nitrate (as N)	9.7	4.2	3.1	3.9
Nitrite (as N)	0.1	< 0.10	< 0.10	< 0.10
Organic Parameters				
Sulfate	230	170	170	530
Benzene	0.063	<0.50	<0.50	<0.50
Ethylbenzene	0.054	<0.50	<0.50	<0.50
Naphthalene	--	<2.0	<2.0	<2.0
n-octane	--	<0.50	<0.50	<0.50
Toluene	0.057	<0.50	<0.50	0.77
Total Xylene	0.13	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons - Diesel	0.17	<0.10	<0.10	<0.10
Radionuclide Parameters				
Gross Alpha (pCi/L)	2.8	< 2.3	3.3 ± 0.9	8.2 ± 1.0
Uranium isotopes (total) (pCi/L)	30.2	2.0 ± 0.5	4.3 ± 1.5	8.2 ± 1.0
Adjusted Gross Alpha (pCi/L)	15.4	< 1.0	< 1.0	< 1.0
Gross Beta (pCi/L)	--	< 2.3	< 2.2	< 2.2
Radium Isotopes 226+228 (pCi/L)	6.2	< 0.8	< 0.7	< 0.7
Radon (pCi/L)	--	2392.9 ± 240.5	4107.6 ± 412.7	4715.5 ± 472.6

Notes:

(1) Maximum ambient water quality at the site pre-operation.

(2) Alkalinity analysis was not reported due to matrix interference. Sample pH was less than 4.5.

All results in milligrams per liter (mg/L) unless otherwise noted.

Non-detects are reported to the laboratory reporting limit

Radionuclide data presented as result ± uncertainty

ISCR = in-situ copper recovery

pCi/L = picocuries per liter

ATTACHMENT 13

Well Abandonment Report
(Placeholder – Not Applicable for this Monitoring Period)